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# INDIAN ECONOMY HANDBOOK

For Civil Services Examination

KETAN



# INDIAN ECONOMY HANDBOOK

The book covers the complete Indian economy syllabus for the civil services examination, both prelims and mains. With clarity of concepts and simple language, it's perfect for students, even those without any background in economics.

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"..a gift for beginners. I wish I'd it when I began my UPSC journey"

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"..made a non-commerce student understand economy.."

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Ketan is an alumnus of IIT Delhi and has successfully cleared the UPSC Civil Services Examination, 2015. He has a passion for writing. In his leisure time, he enjoys playing chess.

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However, if you're reading this without having purchased a copy, you still have my blessings and best wishes. All I ask is that you pay it forward by spreading the word—share this book with friends, family, and colleagues to help more people discover this work.

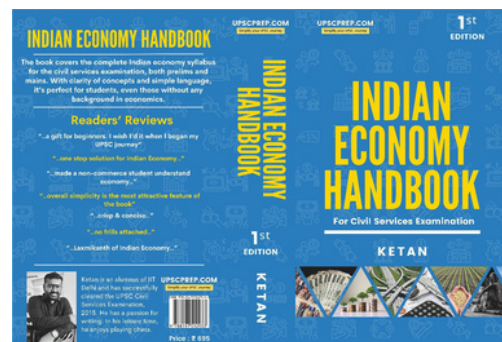
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# Author's Note

The Civil Services Examination is attempted by aspirants from diverse academic backgrounds—engineering, medicine, sciences, humanities. Each aspirant, regardless of their field, encounters Indian economy topics in both the Preliminary and Mains Exams as part of General Studies. This requires a depth of coverage that exceeds that of NCERT books but is not as extensive as college textbooks. For those without an economics background, navigating the subject can be particularly challenging.

I have found the books available in the market to be lacking in one aspect or another, causing civil services aspirants to end up studying from multiple resources. This results in a wastage of time and effort in an exam that requires mastery over many subjects within a limited timeframe.

The aim of this book is to comprehensively cover the static portions of the Prelims and Mains syllabus without making it overly academic or technical.

This journey began over a year ago, and the book was initially provided as an ebook to my students. The feedback I received was overwhelmingly positive and motivated me to further refine and publish the book in print.

The Ketanomy comics started as an attempt to explain economic concepts in a fun and engaging way on my various social media platforms. They were well-received, so I decided to incorporate them into the book to add a unique and enjoyable element to the learning process.

I have always aspired to write a book that is both cool and accessible, and I am very pleased to present to you the Indian Economy Handbook. I hope you find it as enjoyable to read as I have found it rewarding to write.

Wishing you all the best in your endeavors!

Warm regards,



B.Tech, IIT Delhi  
UPSC CSE 2015 AIR 860

Follow me on social media:

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Lastly, to my readers, thank you for taking the time to engage with my book. Your interest and feedback mean the world to me, and I hope this work resonates with you in meaningful ways.

With sincere appreciation,

Ketan



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# CHAPTER 1

## INTRODUCTION TO ECONOMICS





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# Chapter 1

## Introduction to Economics

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### Definition

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Economics is a social science that focuses on the study of how societies allocate and use scarce resources. At its core, economics is concerned with the problem of scarcity, which arises because human wants and needs are virtually unlimited while the resources available to satisfy them are limited. This fundamental problem drives much of economic inquiry and analysis.

Economists study how individuals, businesses, and governments make decisions about the allocation of resources, including labor, capital, and natural resources, to meet their needs and desires.

### Basic Concepts

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#### Goods

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Goods refer to the physical or tangible products that are produced and consumed in an economy. Goods can be categorized into two main types: consumer goods and capital goods.

**Consumer Goods** Consumer goods are products that are purchased by individuals or households for their personal consumption. These goods are used directly to fulfill people's needs and desires. Examples- food items, clothing, electronics like smartphones and televisions, and everyday items like furniture and household appliances.

**Capital Goods** Capital goods are goods that are used by businesses to produce other goods or provide services. These goods are not meant for direct consumption but are used in the production process. Capital goods include machinery, equipment, tools, and buildings used in manufacturing, agriculture, construction, and other industries. For example, a tractor used by a farmer to cultivate crops or a printing press used by a publishing company to print books are considered capital goods.

Goods can also be further classified based on their durability or lifespan. **Durable goods** are those that are used over an extended period, usually more than three years. Examples of durable goods include cars, refrigerators, furniture, and laptops. **Non-durable goods**, on the other hand, are consumed quickly or have a short lifespan. Items like food, beverages, toiletries, and stationery are non-durable goods.

Another way to classify goods is based on their rivalry and excludability. **Rivalry** refers to the extent to which the consumption of a good by one person reduces its availability for others. **Excludability** refers

to the ability to prevent others from using or consuming a good. Based on these characteristics, goods can be classified as private goods, public goods, common goods, and club goods.

**Private goods** are both rivalrous and excludable. These goods are owned by individuals or companies and can be bought and sold in the market. Examples of private goods are clothing, personal electronics, and privately owned vehicles. If you buy a new smartphone, it belongs exclusively to you, and others cannot use it without your permission.

**Public goods**, on the other hand, are non-rivalrous and non-excludable. These goods are provided by the government or public institutions for the benefit of society as a whole. Public goods are available to everyone, and one person's consumption does not diminish its availability for others. Examples of public goods include street lighting, roads, and public parks. For instance, if the government builds a park in your neighborhood, you can enjoy its benefits, and others can as well.

**Common goods** are rivalrous but non-excludable.

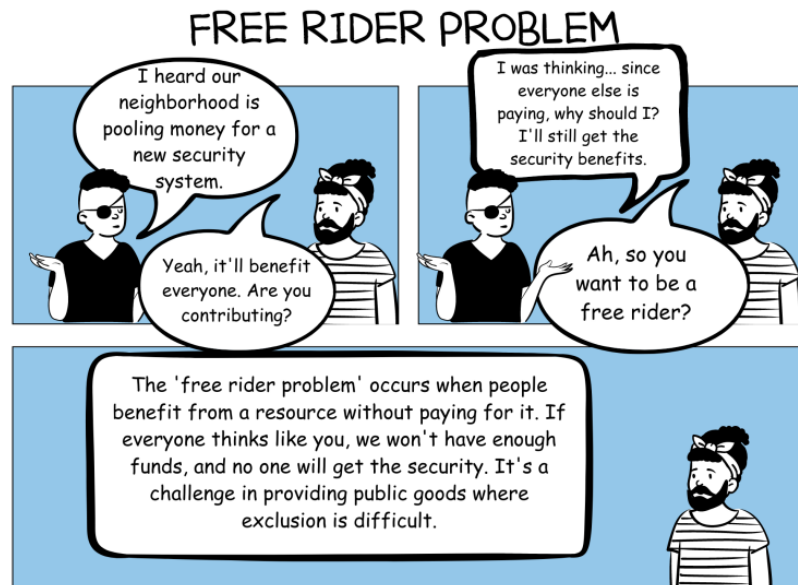
These goods are available for use by anyone, but their consumption by one person reduces the amount available for others. Common goods often face the challenge of overuse or depletion. Examples of common goods are fisheries, forests, and grazing lands. If a fishing lake is open for everyone, each additional fish caught by a fisherman reduces the number of fish available for others.

**Club goods** are excludable but non-rivalrous. These goods are provided by private organizations or clubs, and people can join or pay to access them. Examples of club goods include cable television, private golf courses, and subscription-based services like Netflix. If you subscribe to a streaming service, you can enjoy its content, but your usage does not affect the availability of that content for other subscribers.

## Services

Unlike physical goods, services are intangible and cannot be held or touched. They are activities or tasks performed by individuals or businesses to fulfill the needs and wants of others. They include a wide variety of sectors such as hair salons, education, banking, healthcare, transportation, and entertainment.

Services are often consumed or experienced simultaneously as they are produced. Unlike goods, which can be produced and stockpiled before being sold, services are usually produced and consumed in real-time or on-demand. They rely heavily on human skills, expertise, and interactions.



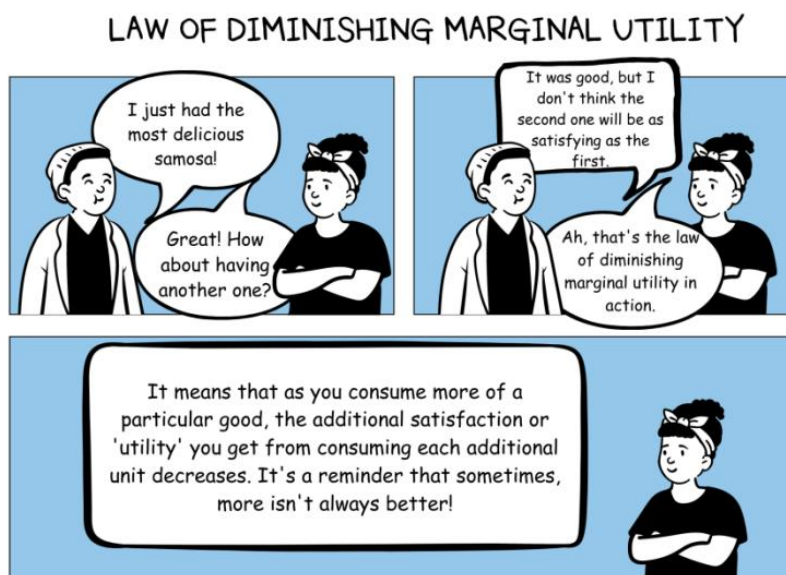


## Utility

Utility refers to the satisfaction or usefulness that a person derives from consuming a good or service. It is a subjective measure and varies from person to person. For example, imagine you are hungry, and you eat a slice of pizza. The satisfaction or happiness you get from eating that slice of pizza is the utility you derive from it.

**Marginal utility**, on the other hand, is the additional utility gained from consuming one more unit of a good or service. It helps us understand how the satisfaction changes as we consume more of a particular item. To illustrate this, let's say you eat the first slice of pizza when you are really hungry. The enjoyment and satisfaction you get from that first slice are high, and let's say you assign it a value of 10 units of utility. Now, you decide to eat a second slice of pizza. The enjoyment you get from the second slice may be slightly less than the first one, let's say 8 units of utility. The difference between the first and second slice, which is 2 units of utility, represents the decrease in marginal utility of the second slice.

**The law of diminishing marginal utility** states that as a person consumes more and more units of a good or service, the additional satisfaction or utility derived from each additional unit will decrease. This means that the more you consume of something, the less additional satisfaction you will get from consuming more of it. To continue with our pizza example, let's say you eat a third slice of pizza. By this point, you may be getting full, and the satisfaction you derive from the third slice might be even lower, let's say 5 units of utility. The marginal utility keeps diminishing with each additional slice.



The law of diminishing marginal utility has important implications for consumer behavior and decision-making. It explains why we tend to seek variety and explore different goods and services to maintain or increase our overall satisfaction. As the marginal utility of a particular item decreases, we may start looking for alternatives to fulfill our needs or seek out other sources of satisfaction.

## Cost

Cost refers to expenses incurred in order to produce goods or services. Costs can be divided into different categories, such as fixed costs, variable costs, and total costs.

**Fixed costs** are costs that do not change with the level of production. Imagine you want to start a small bakery. You need to rent a shop and buy baking equipment. The rent you pay for the shop and the monthly payment for the equipment are fixed costs. It doesn't matter how many loaves of bread you produce, these costs remain the same.

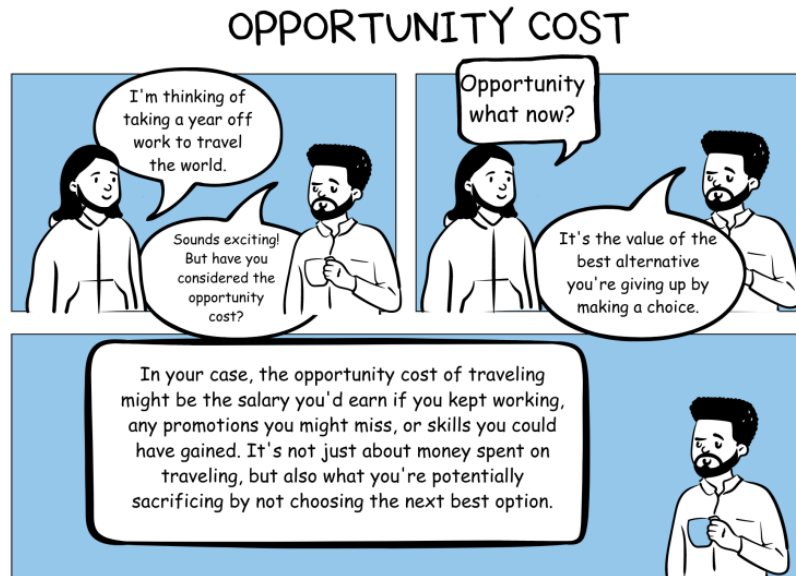
**Variable costs** vary with the level of production. For example, the cost of flour, sugar, and other ingredients you use to make bread will increase as you produce more loaves. The more bread you bake, the higher your variable costs will be.

**Total cost** is the sum of both fixed costs and variable costs. **Average cost** is calculated by dividing the total cost by the quantity of goods produced. It gives you an idea of how much it costs, on average, to produce each unit of output.

### Opportunity Cost:

Opportunity cost is a concept that highlights the value of the next best alternative that is forgone when making a choice. It represents the benefits or profits you could have gained if you had chosen a different option. For example, if you decide to use your baking skills to start a bakery, your opportunity cost might be the potential income you could have earned by working as a chef in a restaurant.

Understanding the different costs is crucial for businesses and individuals to make informed decisions. By comparing costs and benefits, they can evaluate the profitability of different options and make choices that maximize their overall welfare.



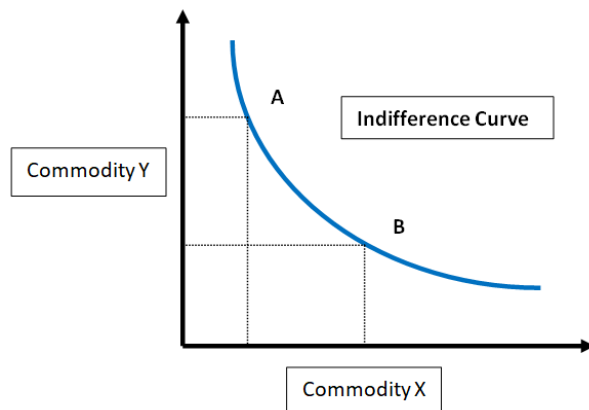
### Price

Price refers to the amount of money or value that is assigned to a good or service. It is the exchange rate at which two parties agree to trade a particular item. Prices are influenced by various factors, such as supply and demand, production costs, competition, government intervention and market conditions.

### Indifference Curve

An indifference curve is a graphical representation that shows different combinations of two goods that provide the same level of satisfaction to an individual. The word "indifference" means that the individual is equally happy or satisfied with any point on the curve.

The slope of an indifference curve is downward sloping, which means that as the quantity of one good increases, the quantity of the other good decreases to maintain the same level of satisfaction. This concept is known as the **diminishing marginal rate of substitution**. It implies



that individuals are willing to give up less of one good in exchange for more of the other good as they consume more of that good.

By analyzing indifference curves, economists can study consumer preferences, make predictions about consumer choices, and understand how individuals allocate their resources to maximize their satisfaction or utility.

## Types of Economics

---

Macroeconomics and microeconomics are two main branches of economics that focus on different levels of analysis and different economic phenomena.

**Macroeconomics** is concerned with the study of the economy as a whole, including the aggregate behavior of households, firms, and governments. It examines the performance of the economy in terms of overall output, income, and employment, and the factors that affect these variables. Macroeconomic topics of interest include economic growth, inflation, unemployment, monetary policy, fiscal policy, and international trade.

**Microeconomics**, on the other hand, focuses on the behavior of individual agents, such as consumers, firms, and industries, and how their interactions in markets determine prices and the allocation of resources. Microeconomics seeks to understand how individuals and firms make decisions, how markets work, and how government policies affect the behavior of these agents. Topics of interest in microeconomics include supply and demand, market structure, consumer behavior, producer behavior, and the economics of information.

## Concepts of Microeconomics

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### Demand

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Demand refers to the quantity of a good or service that consumers are willing and able to buy at a given price and within a specific time period. It represents the desire, affordability, and intention to purchase a product.

### Determinants of demand

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1. **Price of the Product:** The most obvious determinant of demand is the price of the product itself. Usually, when the price of a product decreases, the quantity demanded increases, and vice versa. For example, if the price of smartphones goes down, more people might be interested in buying them.

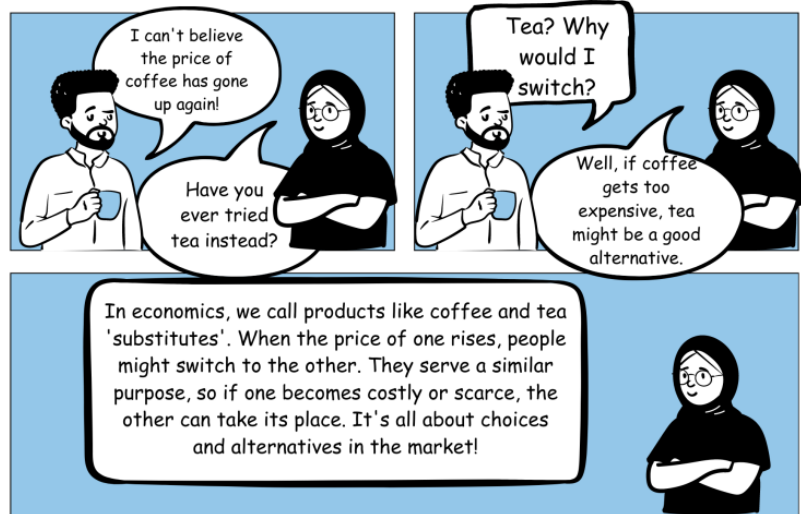
2. **Income:** The income of consumers plays a significant role in determining their purchasing power. When people's income increases, they can afford to buy more goods and services, leading to an increase in demand. For instance, if people's salaries increase, they might be more willing to buy luxury items like expensive jewelry.

3. **Price of Related Goods:** The prices of related goods, such as **substitutes** and **complements**, can affect the demand for a particular product. Substitutes are products that can be used in place of each other, like tea and coffee. When the price of one substitute increases, people may switch to the other, resulting in a change in demand. Complementary goods are products that are used together, like smartphones and mobile data plans. If the price of smartphones decreases, the demand for mobile data plans may increase, as more people will buy smartphones and want to use them with data plans.

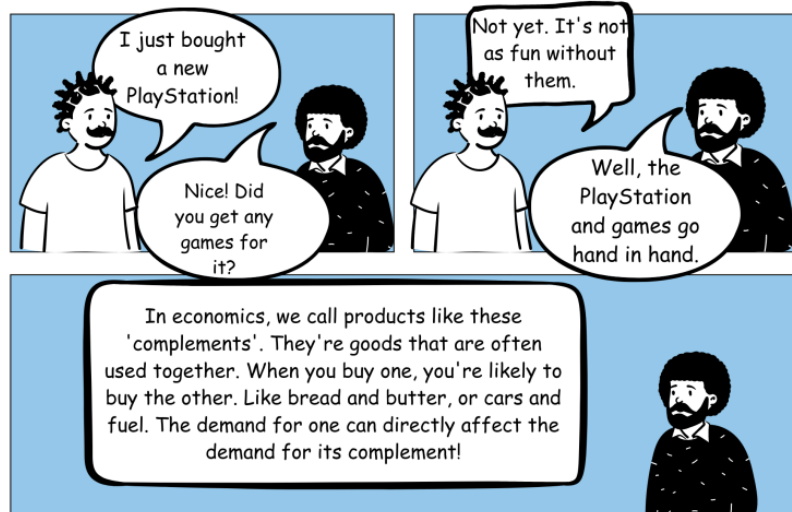
4. **Consumer Preferences and Tastes:** Consumer preferences and tastes also influence demand. If a new fashion trend becomes popular, the demand for clothing items related to that trend will likely increase.

5. **Population:** The size and demographics of the population can impact demand. An increase in population generally leads to an increase in demand for goods and services. For example, if a new housing complex is built, the demand for furniture, appliances, and other household items may rise.

## SUBSTITUTES

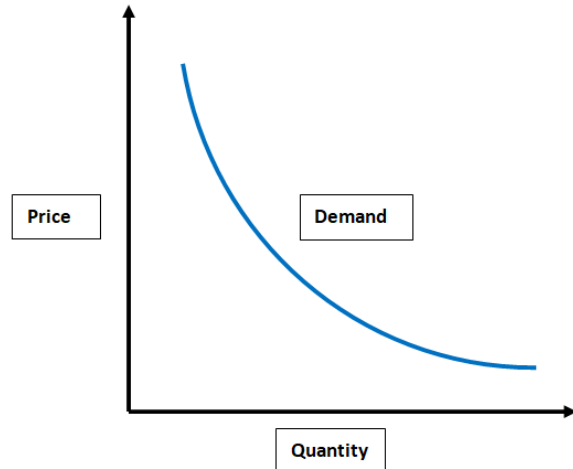


## COMPLIMENTS



**The law of demand:** The law of demand states that there is an inverse relationship between the price of a product and the quantity demanded, all other factors being equal. This relationship is illustrated by the demand curve.

**Elasticity of demand:** Elasticity of demand measures the responsiveness of quantity demanded to a change in price. It helps us understand how sensitive consumers are to price changes. There are three types of elasticity of demand:

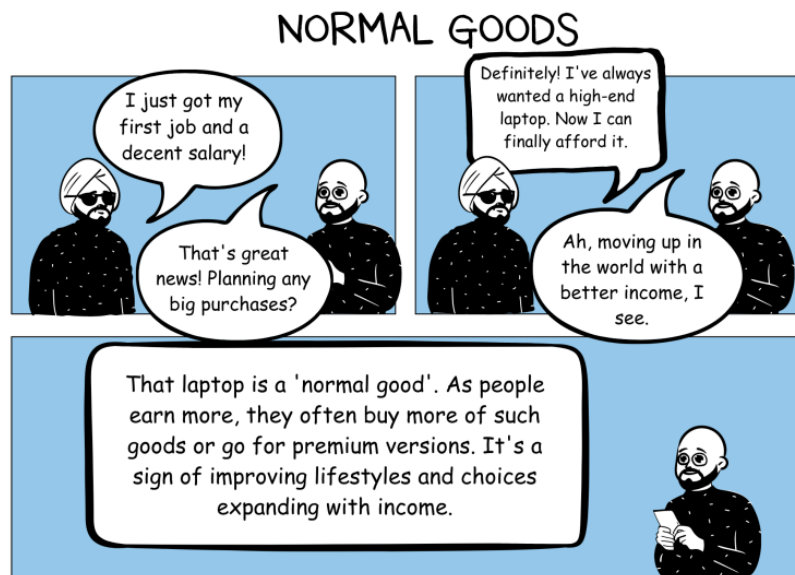


1. **Elastic Demand:** When a change in price leads to a relatively larger change in quantity demanded, we say demand is elastic. In this case, consumers are highly responsive to price changes. For example, if the price of a luxury car increases, people may decide to buy a different brand or postpone their purchase altogether.
2. **Inelastic Demand:** When a change in price leads to a relatively smaller change in quantity demanded, we say demand is inelastic. In this case, consumers are less responsive to price changes. For example, if the price of basic groceries increases slightly, people will still buy them because they are necessities.
3. **Unit Elastic Demand:** When a change in price leads to an equal percentage change in quantity demanded, we say demand is unit elastic. In this case, the responsiveness of quantity demanded matches the change in price.

**Exceptions to the law of demand:** While the law of demand generally holds true, there are some exceptions:

**Giffen Goods:** These are inferior goods that defy the law of demand. As the price of a Giffen good increases, the quantity demanded also increases. This happens when the good is an essential staple for lower-income consumers. For example, in a poor community, a family typically consumes 5 kg of rice and 1 kg of meat daily. When the price of rice rises, their limited budget forces them to buy less meat and more rice to meet their calorie needs. Despite the increase in rice prices, they end up purchasing the same or more rice because they cannot afford meat anymore, demonstrating the Giffen Paradox, where higher prices for an inferior good (rice) lead to increased demand due to budget constraints.

**Veblen Goods:** These are luxury goods that also defy the law of





demand. As the price of a Veblen good increases, the quantity demanded may also increase. This is because the high price of the good is seen as a status symbol, making it more desirable for some consumers.

## Supply

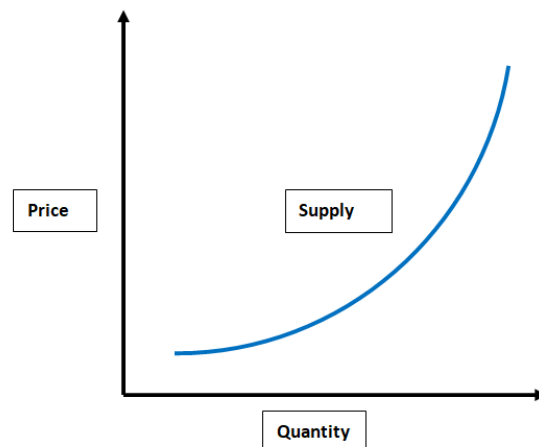
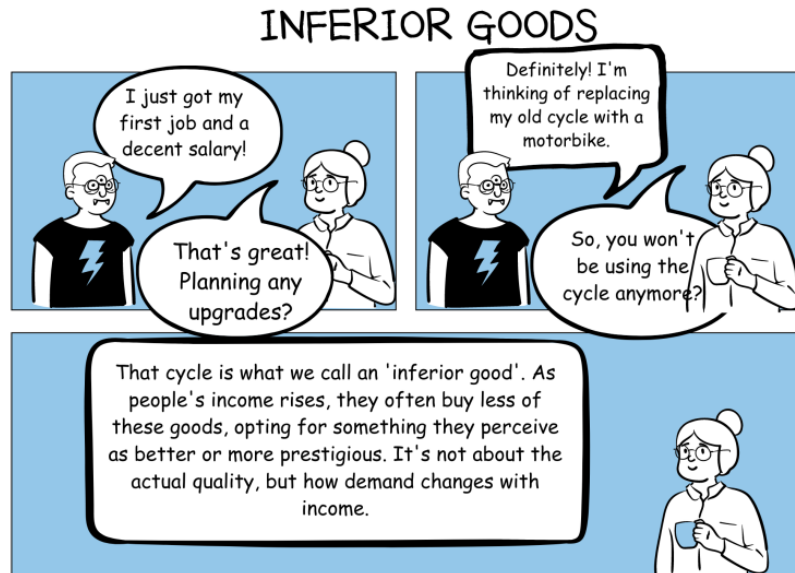
Supply refers to the quantity of a good or service that producers are willing and able to offer for sale at different prices during a specific period. It represents the relationship between the price of a product and the quantity producers are willing to produce and sell.

**Law of Supply:** The law of supply states that there is a direct relationship between the price of a product and the quantity supplied, assuming all other factors remain constant. In simple terms, as the price of a product increases, the quantity supplied by producers also increases, and vice versa. This relationship can be illustrated using a supply curve.

## Determinants of supply

1. **Price of inputs:** The cost of resources and inputs required to produce a good or service can affect supply. For example, if the price of raw materials used in manufacturing increases, it becomes more expensive to produce the product, potentially leading to a decrease in supply.
2. **Technology:** Advancements in technology can enhance production efficiency, reduce costs, and increase supply. For instance, the invention of new machinery or automation can streamline production processes, allowing producers to supply more goods at lower costs.
3. **Number of sellers:** If new firms enter the market, the overall supply may increase. Conversely, if existing firms exit the market, supply may decrease.
4. **Expectations:** Expectations about future prices or changes in market conditions can influence supply. For example, if producers anticipate a significant increase in the price of a product in the future, they might reduce current supply to take advantage of higher profits later.
5. **Government regulations:** Government policies and regulations can affect the supply of goods and services. For instance, imposing restrictions or taxes on certain industries may reduce their supply, while subsidies or incentives can increase supply.

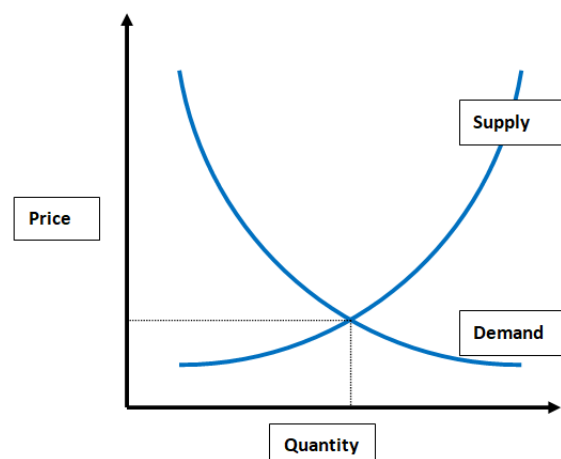
**Elasticity of supply:** Elasticity of supply measures the responsiveness of the quantity supplied to changes in price. The concept of elasticity of supply can be categorized into three types:



1. **Elastic supply:** If the quantity supplied is highly responsive to price changes, it is considered elastic. In this case, a small change in price leads to a relatively larger change in quantity supplied. For example, if the price of a particular crop increases, farmers can quickly adjust their production levels by planting more of that crop.
2. **Inelastic supply:** If the quantity supplied is not very responsive to price changes, it is considered inelastic. In this case, a change in price has a relatively smaller effect on the quantity supplied. For instance, if the price of rare and limited resources, like precious metals, increases, the quantity supplied may not change significantly due to their scarcity.
3. **Unitary elastic supply:** When the percentage change in quantity supplied is equal to the percentage change in price, the supply is said to be unitary elastic. In other words, if there is a 10% increase in price, the quantity supplied will also increase by 10%, resulting in a constant supply elasticity of 1.

## Market Equilibrium

Market equilibrium refers to a situation where the quantity of a product or service demanded by buyers is equal to the quantity supplied by sellers at a particular price. In other words, it is the point where the intentions of buyers and sellers match, resulting in a balance in the market. Any deviations from the equilibrium price and quantity will create market imbalances, either as a surplus (excess supply) or a shortage (excess demand).



## Competition

Competition refers to the rivalry among sellers in the marketplace who are trying to attract buyers and sell their products. It plays a vital role in determining prices, quality, and variety of goods and services available to consumers.

Different types of markets based on the level of competition:

**Perfect Competition** In a perfectly competitive market, there are many buyers and sellers offering identical products. No single buyer or seller has control over the price. Agricultural markets, such as wheat or rice, often exhibit characteristics of perfect competition.

**Monopolistic Competition** Monopolistic competition refers to a market with many sellers offering similar but not identical products. Each seller has some control over the price and can differentiate their product through branding, marketing, or product features. Fast-food chains, like McDonald's and Burger King, operate in a monopolistically competitive market.

**Oligopoly** An oligopoly market consists of a few large sellers dominating the market. These sellers have significant market power and can influence prices and market conditions. The actions of one seller can have a noticeable impact on others. Examples of industries with oligopolistic competition include the automobile industry and the smartphone market.

**Monopoly** A monopoly occurs when there is only one seller in the market, dominating the entire industry. This seller has complete control over the price and quantity of the product or service. Monopolies can be harmful to consumers as they may lead to higher prices and reduced choices. A

classic example of a monopoly is a public utility company that has exclusive control over providing electricity or water in a particular region.

**Monopsony** Monopsony is a market structure in which there is only one buyer for a particular product or service, while there are multiple sellers. In other words, it is the opposite of a monopoly. Single buyer has significant market power and can exert control over the terms of trade with sellers.

Let's consider an example of a monopsonistic market for labor. Imagine a small town with a single large employer, such as a factory or a mine. This employer is the only buyer of labor in the area, and there are many individuals looking for jobs as sellers of labor. The single buyer has the ability to influence the wage rate and employment conditions. They can choose to hire fewer workers to keep wages down and maintain their bargaining power.



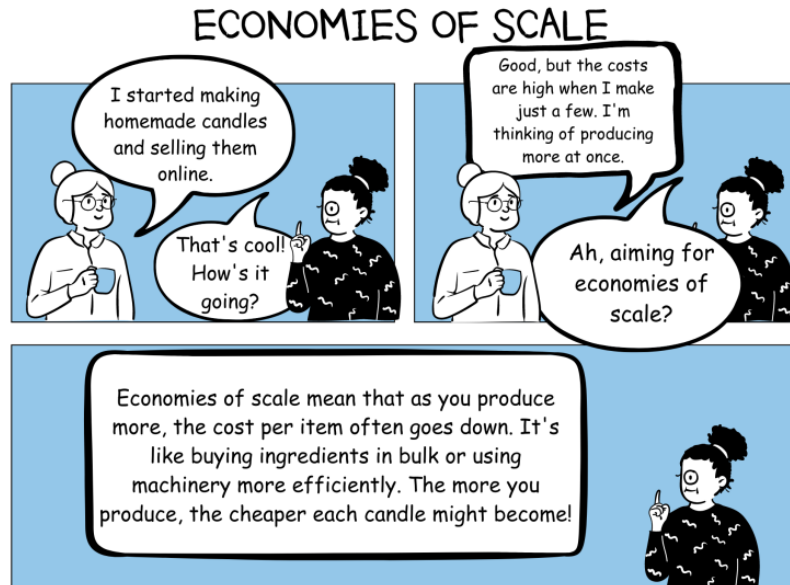
## Additional Terms and Concepts

### Economies of Scale

Economies of scale occur when the cost per unit of output decreases as the scale of production increases. This usually happens because fixed costs are spread over more units of output, and operational efficiencies are achieved.

Example: Consider a car manufacturing company. When the company produces 100 cars, it has certain fixed costs like machinery, rent, and salaries. If the company increases its production to 1000 cars, these fixed costs are spread over more units, reducing the cost per car.

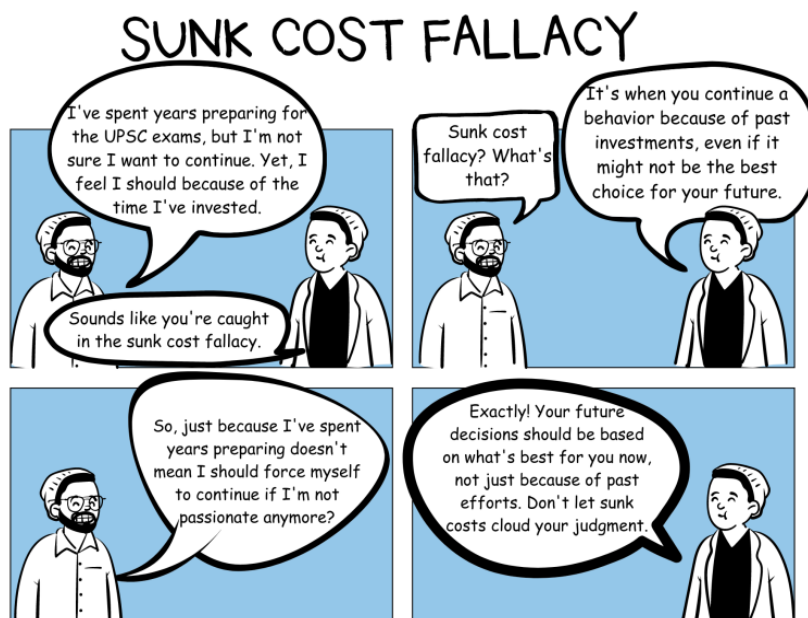
Additionally, bulk purchasing of raw materials might reduce variable costs. Thus, producing cars at a larger scale reduces the average cost per car, demonstrating economies of scale.



### Sunk Costs

Sunk costs are expenses that have already been incurred and cannot be recovered. These costs should not influence current decision-making because they remain the same regardless of the outcome of a decision.

Example: Imagine you bought a non-refundable movie ticket for Rs.500, but just before the movie, you realize you don't want to go anymore. The Rs.500 is a sunk cost because you cannot get it back, no matter what you decide now. Whether you go to the movie or not, the Rs.500 is already spent, so it should not affect your decision about whether or not to attend.



## Tragedy of the Commons

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The Tragedy of the Commons describes a situation where individuals, acting in their own self-interest, deplete a shared resource, leading to its eventual destruction, despite knowing that preserving the resource is in their long-term best interest.

Example: Consider a common pasture shared by several farmers for grazing their cows. If each farmer tries to maximize their own benefit by adding more cows, the pasture becomes overgrazed and eventually destroyed. Despite knowing that sustainable grazing would benefit everyone, the individual pursuit of short-term gain leads to the depletion of the resource.

## Pareto Efficiency

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Pareto efficiency, or Pareto optimality, is a situation where no individual can be made better off without making someone else worse off. It signifies an optimal allocation of resources.

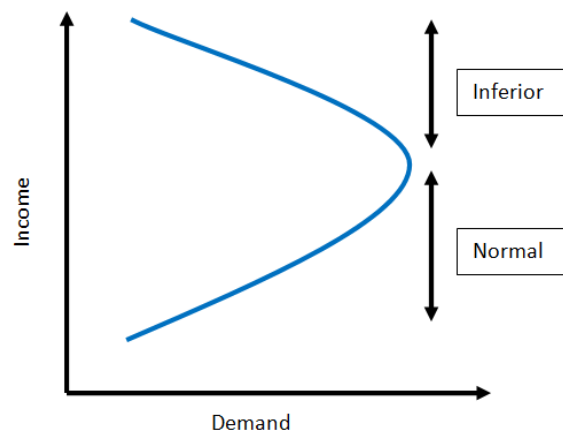
Example: Suppose there are two friends, A and B, who are sharing a pizza. If they divide the pizza in such a way that neither can get a larger share without reducing the other's share, they have achieved Pareto efficiency. If A gets more pizza, B will have less, and vice versa. Any change from this distribution would make at least one of them worse off.

## Engel Curve

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The Engel curve shows the relationship between a consumer's income and their expenditure on a particular good. It typically illustrates how consumption of a good changes as income changes.

Example: Consider how a family's spending on train tickets changes as their income increases. At lower income levels, a significant portion of income might be spent on train tickets for necessary travel. As income rises, they might spend more on train tickets for more frequent or farther travel, indicating train tickets are a normal good. However, at even higher income levels, they might switch to other modes of travel like flights or private cars, reducing their expenditure on train tickets, making them an inferior good. Plotting this relationship on a graph gives us the Engel curve for train tickets.



## Rational Choice Theory

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Rational choice theory assumes that individuals make decisions by comparing the costs and benefits of various options and choosing the one that maximizes their utility (satisfaction or benefit).

Example: Imagine you are choosing between buying a cup of coffee or a sandwich for breakfast. According to rational choice theory, you will compare the satisfaction (utility) you get from each option and their respective costs. If you believe the coffee will give you more satisfaction relative to its price

than the sandwich, you will choose the coffee. This decision-making process is based on rational choice theory.

### *Paradox of Choice*

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The Paradox of Choice suggests that having too many options can lead to anxiety and difficulty making decisions, often resulting in less satisfaction with the chosen option.

Example: When shopping for a new smartphone, if a consumer is presented with 50 different models, they might feel overwhelmed and anxious about making the right choice. This can lead to decision paralysis or regret after making a choice, even if the chosen phone meets their needs.

### *Paradox of Value (Diamond-Water Paradox)*

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The Paradox of Value, also known as the Diamond-Water Paradox, explains why goods that are essential for survival (like water) are often less expensive than non-essential goods (like diamonds). Water is vital for life but is usually inexpensive because it is abundant. Diamonds, on the other hand, have little practical use but are extremely expensive due to their rarity and the high value placed on them as luxury items.

## Previous Year Prelims Questions

1.	<p>Consider the following statements</p> <p>Other things remaining unchanged, market demand for a good might increase if</p> <ol style="list-style-type: none"><li>1. Price of its substitute increases</li><li>2. Price of its complement increases</li><li>3. The good is an inferior good and income of the consumers increases</li><li>4. Its price falls</li></ol> <p>Which of the above statements are correct?</p> <p>(a) 1 and 4 only (b) 2, 3 and 4 (c) 1, 3 and 4 (d) 1, 2 and 3</p>	2021
2.	<p>If a commodity is provided free to the public by the Government, then</p> <p>(a) the opportunity cost is zero. (b) the opportunity cost is ignored. (c) the opportunity cost is transferred from the consumers of the product to the tax-paying public. (d) the opportunity cost is transferred from the consumers of the product to the Government.</p>	2018

### Answers

1.	(a)	2.	(c)
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# CHAPTER 2

NATIONAL INCOME  
ACCOUNTING



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# Chapter 2

## National Income Accounting

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National income accounting is a method of measuring and analyzing the economic activity of a country or region. National income accounting is widely used by governments, central banks, and international organizations to monitor and analyze economic performance, and to design and evaluate economic policies.

### Various measures of National Income

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There are several measures of national income that are commonly used:

1. Gross Domestic Product (GDP)
2. Gross National Product (GNP)
3. Net Domestic Product (NDP)
4. Net National Product (NNP)
5. National Income (NI)
6. Personal Income (PI)
7. Personal Disposable Income (PDI)

### Gross Domestic Product

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Gross Domestic Product, or GDP, is a measure of the total monetary value of all final goods and services produced within a country's domestic territory over a specified period of time, typically a financial year. It is one of the most widely used indicators of a country's economic performance.





Key Term	What is Included	What is Not Included
<b>Total monetary value</b>	The monetary value of all goods and services produced within a country's domestic territory in a given period of time	Non-monetary goods and services, such as volunteer work or unpaid household work
<b>Final goods and services</b>	Goods and services that are produced for final consumption or investment, including durable goods, non-durable goods, and services	Intermediate goods and services, which are used as inputs in the production of other goods and services
<b>Domestic territory</b>	<p>The geographical boundaries, including airspace and territorial waters, within which persons, goods, and capital can circulate freely. These include:</p> <p>(i) Territory lying within the political frontiers of a country. It includes territorial waters also.</p> <p>(ii) Ships and aircrafts owned and operated by the residents between two or more countries. For instance, Passenger planes operated by Air India between Russia and Japan are parts of domestic territory of India.</p> <p>(iii) Fishing vessels, oil and natural gas rigs and floating platforms operated by the residents of a country in the international waters or engaged in extraction in areas where the country has exclusive rights of operation. For example, fishing boats operated by Indian fishermen in the international waters of the Indian Ocean will be considered as a part of domestic territory of India.</p> <p>(iv) Embassies, consulates and military establishments of the country located abroad. To illustrate, Indian embassies in Russia, America and other countries will form parts of domestic territory of India.</p>	<p>(i) Territorial enclaves (like embassies) used/administered by foreign governments.</p> <p>(ii) International organisations like IMF or World Bank, which are physically located within geographical boundaries of a country. Their offices form part of international territory.</p>
<b>Financial year</b>	A period of 12 months used for accounting purposes. In India, Financial Year starts on 1 <sup>st</sup> April and ends on 31 <sup>st</sup> March.	

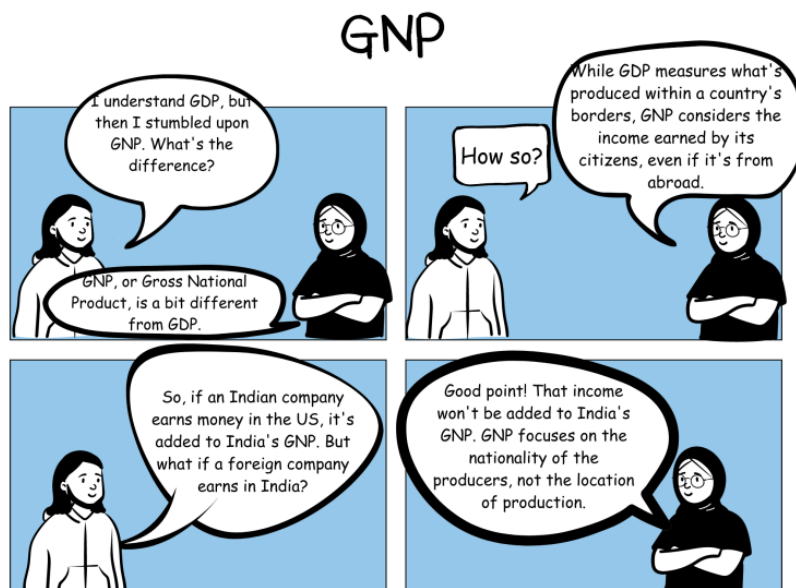
## Real GDP and Nominal GDP

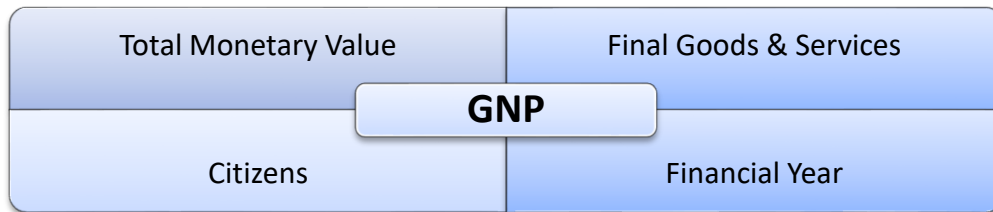
Criteria	Nominal GDP	Real GDP
<b>Definition</b>	GDP measured at current year market prices	GDP measured at constant base-year price (A base year is a reference year used as a benchmark for measuring changes in economic variables such as prices, wages, production, and income.)
<b>Calculation</b>	(Price x Quantity) of all goods and services produced	(Price of base year x Quantity) of all goods and services produced
<b>Effects of Inflation</b>	Reflects the effects of inflation on the economy's output	Adjusts for the effects of inflation, providing a more accurate picture of the economy's growth
<b>Accuracy</b>	Less accurate measure of economic growth and well-being, as it does not adjust for inflation	More accurate measure of economic growth and well-being, as it adjusts for the effects of inflation

For example, if the base year is 2010, and the quantity of a good produced in 2024 is 100 units, with a price of Rs 2 per unit, the nominal GDP contribution of that good in 2024 would be Rs 200. However, if the price of that good was Re 1 per unit in 2010, the real GDP contribution of that good in 2024 would be Re 100, reflecting the effects of inflation.

## Gross National Product

Gross National Product, or GNP, is a measure of the total monetary value of all final goods and services produced by the citizens of a country, regardless of where they are located, over a specified period of time, typically a financial year. It includes the value of goods and services produced by citizens who are living and working abroad, and excludes the value of goods and services produced within the country by foreign nationals.





## GDP vs GNP

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Gross Domestic Product (GDP) and Gross National Product (GNP) are both measures of economic activity, but they differ in their approach to measuring economic output.

GDP is a **territory-based concept** that measures the total value of all final goods and services produced within a country's domestic territory. It includes goods and services produced by both domestic and foreign-owned firms located within the country's domestic territory.

In contrast, GNP is a **citizenship-based concept** that measures the total value of all final goods and services produced by a country's citizens, regardless of where they are located. It includes goods and services produced both domestically and abroad by citizens of the country.

## Net Factor Income from Abroad

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Net Factor Income from Abroad (NFIA) is the difference between income earned by the citizens of a country abroad and income earned by foreigners in the country.

### **GNP = GDP + Net Factor Income from Abroad (NFIA)**

For example, if the GDP of India in a financial year is 10 trillion dollars, and the Net Factor Income from Abroad is 0.5 trillion dollars (which means that Indian citizens earned more income from their investments or work abroad than foreigners earned in India), then the GNP of India for that year would be 10.5 trillion dollars.

Conversely, if the Net Factor Income from Abroad is negative, it means that foreigners earned more income in the country than the citizens earned from their investments or work abroad. In this case, the GNP will be lower than the GDP.

## Depreciation

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Depreciation is the decrease in the value of capital goods and assets over time due to wear and tear, obsolescence, and other factors. Since capital goods are used in the production of goods and services, their decline in value needs to be accounted for to accurately measure the value of goods and services produced. Depreciation is also known as the **consumption of fixed capital (CFC)**.

For example, if a machine in a factory costs Rs. 10,00,000 and has a useful life of 10 years, then its annual depreciation would be Rs. 1,00,000 (Rs. 10,00,000 divided by 10 years). This depreciation

expense needs to be accounted for in the company's financial statements to reflect the true cost of producing the goods and services. If the depreciation is not accounted for, the value of the company's assets will be overstated, and the company's profitability will be overstated.

## Gross vs Net

Gross and Net are two important concepts in economics that are used to measure the value of goods and services produced in an economy.

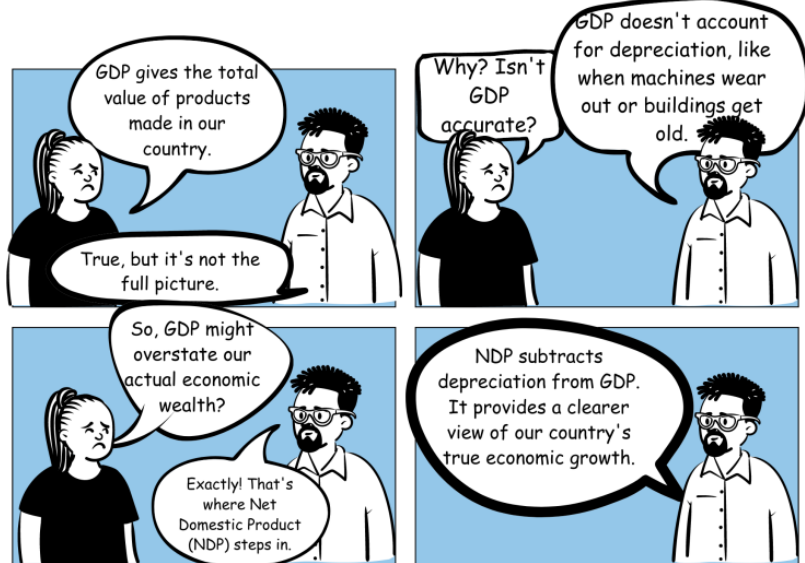
- Gross refers to the total value of goods and services produced without accounting for Depreciation.
- Net refers to the value of goods and services produced after accounting for Depreciation.

As such,

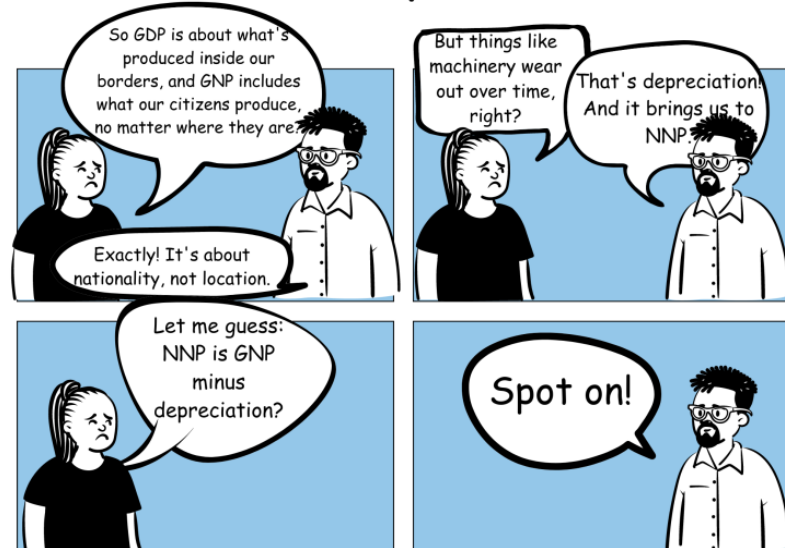
**Net Domestic Product (NDP)** = Gross Domestic Product (GDP) - Depreciation

**Net National Product (NNP)** = Gross National Product (GNP) – Depreciation

## NET DOMESTIC PRODUCT



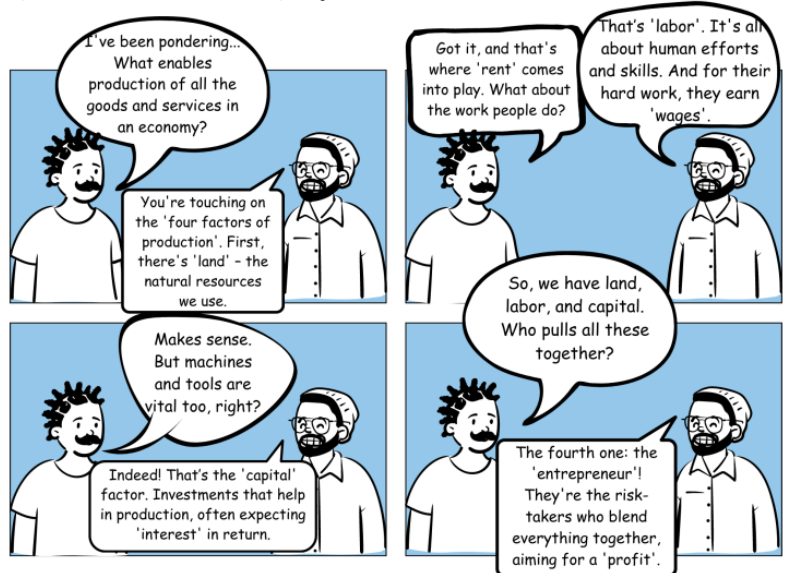
## NET NATIONAL PRODUCT



## Factors of Production

The factors of production are the resources and inputs required to produce goods and services in an economy. There are four factors of production:-

## FACTORS OF PRODUCTION



Factors of Production	Explanation	Income Earned
<b>Land</b>	Refers to all natural resources such as forests, minerals, water, and land itself, which are used to produce goods and services.	Rent
<b>Labour</b>	Includes all human resources, such as skills, abilities, and knowledge, which are used in the production process.	Wages
<b>Capital</b>	Includes all man-made resources, such as machinery, buildings, tools, and equipment, used in the production process.	Interest
<b>Entrepreneurship</b>	Refers to the ability and willingness of individuals to take risks and innovate to produce goods and services.	Profit

## Factor Cost vs Market Price

Factor cost refers to the total cost of the four factors of production (land, labour, capital, and entrepreneurship) that are used to produce goods and services. This includes the cost of wages, rent, interest, and profits paid to these factors. Factor cost is an important consideration for businesses as it determines the cost of production and profitability.

Market price, on the other hand, refers to the price at which goods and services are sold in the market.

The relationship between factor cost and market price can be expressed through the following equation:

$$\text{Market Price (MP)} = \text{Factor Cost (FC)} + \text{Indirect Taxes} - \text{Subsidies}$$

Indirect taxes refer to taxes paid by producers such as excise duty, customs duty, and Goods & Services tax (GST). Subsidies, on the other hand, refer to financial assistance provided by the

government to producers to reduce their cost of production. When indirect taxes are levied on the production of goods and services, they increase the cost of production and hence increase the market price. Similarly, when subsidies are provided, they reduce the cost of production and hence decrease the market price.

Using these concepts, we can calculate

$$\text{GDP}_{\text{MP}} (\text{GDP at Market Price}) = \text{GDP}_{\text{FC}} (\text{GDP at Factor Cost}) + \text{Indirect Taxes} - \text{Subsidies}$$

$$\text{NDP}_{\text{MP}} = \text{NDP}_{\text{FC}} + \text{Indirect Taxes} - \text{Subsidies}$$

$$\text{GNP}_{\text{MP}} = \text{GNP}_{\text{FC}} + \text{Indirect Taxes} - \text{Subsidies}$$

$$\text{NNP}_{\text{MP}} = \text{NNP}_{\text{FC}} + \text{Indirect Taxes} - \text{Subsidies}$$

## GDP Deflator

$$\text{GDP deflator} = (\text{Nominal GDP} / \text{Real GDP}) \times 100$$

The GDP deflator is used to measure the change in the overall level of prices in an economy over time. A rise in the GDP deflator indicates that the overall level of prices has increased, while a decrease indicates that the overall level of prices has decreased.

## National Income

National Income is the total income **earned** by the citizens of a country during a financial year, calculated as Net National Product (NNP) at factor cost.

$$\text{National Income (NI)} = \text{NNP}_{\text{FC}} = \text{GNP}_{\text{FC}} - \text{Depreciation}$$

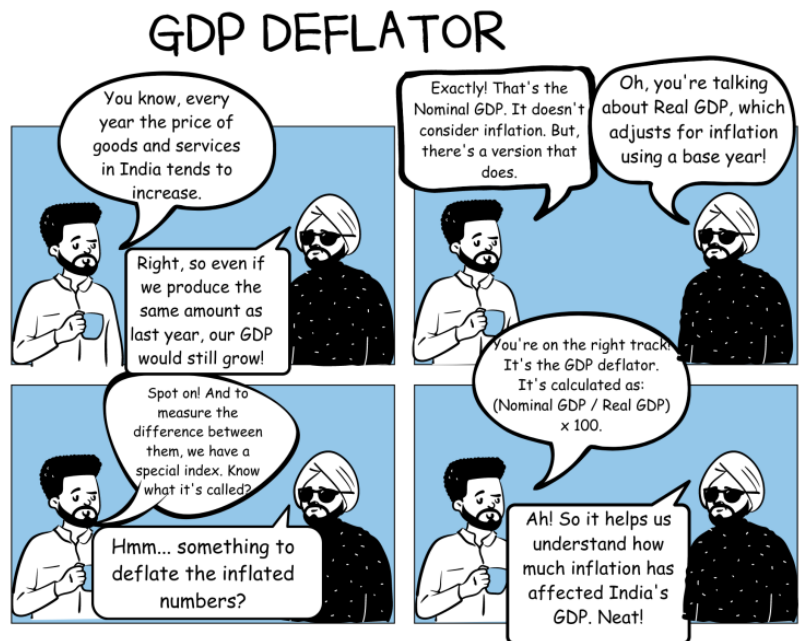
$$\text{Real National Income} = \text{National Income at base price}$$

$$\text{Nominal National Income} = \text{National Income at current price}$$

## Per capita Income

Per capita income is a measure of the average income earned by an individual in a country.

$$\text{PCI} = \text{National Income} / \text{Total Population of the country}$$





## Transfer Payments

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Transfer payments refer to payments made by the government to individuals or other entities without any corresponding exchange of goods or services. These payments are made for various reasons such as social welfare, redistribution of income, and to support certain economic activities.

Some examples of transfer payments include: Old age pensions, scholarships etc

## Personal Income

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Personal income (PI) is a measure of income **received** by individuals in an economy.

To calculate personal income, we start with national income (NI), which is the total income earned by the citizens of a country during a financial year. We then add transfer payments such as social welfare payments and subsidies, which are payments made by the government to individuals or entities without any corresponding exchange of goods or services.

However, not all of the national income is received by individuals as personal income. Certain payments, such as corporate retained earnings (kept within the company to reinvest in the business or to pay off debt), corporate taxes, and social security taxes (Provident Fund, Gratuity etc) are not paid out to individuals. Therefore, we must deduct these payments from national income to estimate personal income.

The formula for calculating personal income is:

$$PI = NI + \text{Transfer payments} - \text{Corporate retained earnings, corporate taxes, Social security taxes}$$

Or

$$PI = NI + \text{income received but not earned} - \text{income earned but not received}$$

## Disposable Personal Income

---

Disposable Personal Income (DPI) is a measure of the income that individuals have available to spend or save after taxes have been paid. DPI is calculated by subtracting personal taxes from personal income.

Personal taxes include all taxes paid by individuals, such as income tax, property tax, professional tax, and other taxes that are levied on personal income.

The formula for calculating DPI is:

$$DPI = PI - \text{Personal taxes}$$



The disposable income can be used either for consumption or saving. The amount spent on consumption is called consumption expenditure, and the amount saved is called savings. Therefore, disposable income is equal to consumption expenditure plus savings:

$$\text{Disposable Income} = \text{Consumption Expenditure} + \text{Savings}$$

It is an important measure for analyzing consumer behavior and trends in consumption and saving.

## Capital-output ratio (COR)

COR is a measure used to quantify the amount of capital required to produce a unit of output or goods and services. It represents the relationship between the amount of capital invested and the level of output produced in an economy or a specific industry.

$$\text{Capital-Output Ratio} = \text{Total Capital Stock} / \text{Total Output}$$

The capital-output ratio provides insights into the efficiency and productivity of an economy or industry. A lower capital-output ratio indicates that less capital is required to produce a unit of output, suggesting higher efficiency and productivity. On the other hand, a higher capital-output ratio indicates that more capital is needed for the same level of output, which may suggest lower efficiency.

The capital-output ratio is influenced by various factors, including technology, the level of infrastructure, the availability of skilled labor, and the production techniques employed. Understanding the capital-output ratio can help identify sectors or industries that require higher or lower capital investment relative to their output and guide decision-making regarding resource allocation and economic development strategies.

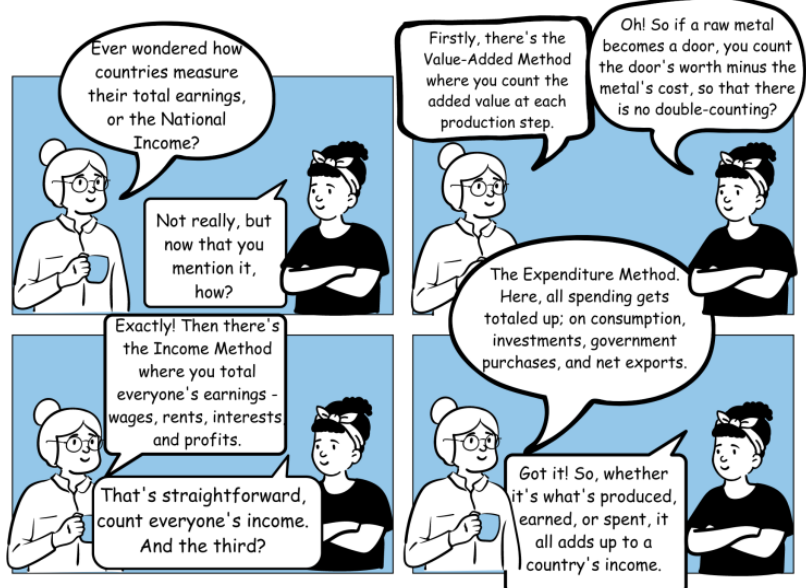
## Measurement of National Income

There are three methods of measuring national income:

### Value Added Method

The value-added method is a way of calculating national income by adding up the value added by each producer in the economy. This method measures the contribution of each stage of production to the final output and

### MEASUREMENT OF NATIONAL INCOME



includes only the value added at each stage.

Here's an example to help you understand the value-added method:

Let's say there is a simple economy that produces only two goods: bread and jam. The bread is sold for Rs 5 per loaf and the jam is sold for Rs 300 per jar. The bakery buys flour for Rs 2 per loaf. The jam maker buys fruit for Rs 100 per jar and sugar for Rs 50 per jar. Using the value-added method, we can calculate the national income as follows:

Bakery: Revenue from bread sales: Rs 5 per loaf x 1000 loaves = Rs 5000

Value added: Rs 5000 - (Rs 2 per loaf x 1000 loaves) = Rs 3000

Jam maker: Revenue from jam sales: Rs 300 per jar x 100 jars = Rs 30,000

Value added: Rs 30,000 - ((Rs 100 per jar + Rs 50 per jar) x 100 jars) = Rs 15,000

National income: Value added by bakery + value added by jam maker = Rs 3,000 + Rs 15,000 = Rs 18,000

So the national income of this simple economy is Rs 18,000, which is the total value added by both the bakery and the jam maker.

## Income method

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The income method is another way of calculating national income. It measures national income by adding up the income earned by various factors of production, such as wages, rent, interest, and profit.

Let's assume there is an economy that produces only one good, which is rice. The rice farmers sell their rice to a rice miller who processes it and sells it to consumers.

Here's the income earned by different factors of production:

1. Wages: The rice farmers hire laborers to help with planting, harvesting, and transporting the rice. Let's assume that the farmers pay their laborers a total of Rs. 10,00,000 per year.
2. Rent: The rice farmers also rent land from landowners to grow their rice. Let's assume that the farmers pay a total of Rs. 2,00,000 per year in rent.
3. Interest: The rice miller takes a loan from a bank to buy machinery for processing the rice. The miller pays an interest of Rs. 1,00,000 per year on the loan.
4. Profit: The rice miller earns a profit of Rs. 5,00,000 per year from processing and selling the rice.

Using the income method, we can calculate the national income as follows:

Total wages earned by laborers: Rs. 10,00,000

Total rent earned by landowners: Rs. 2,00,000

Total interest earned by banks: Rs. 1,00,000

Total profit earned by the rice miller: Rs. 5,00,000

Total national income: Rs. 18,00,000 (sum of all the incomes earned by different factors of production)

In this example, the national income of the economy is Rs. 18,00,000, which is the sum of all the income earned by the laborers, landowners, banks, and rice miller in the production of rice.

The income method provides a more comprehensive view of the income earned in the economy and helps to understand the contribution of different factors of production.

## Expenditure Method

Calculating national income using the expenditure method involves adding up all the expenditures made by various sectors in an economy over a specific period. The formula for calculating National Income using the expenditure method is as follows:

$$Y = C + I + G + (X - M)$$

National income (Y) = Consumption Expenditure (C) + Investment Expenditure (I) + Government Expenditure (G) + Net Exports (Exports (X) – Imports (M))

Let's break down each component:

1. **Consumption Expenditure (C):** Consumption refers to the total spending by households on goods and services during the given period. It includes purchases of items like food, clothing, housing, healthcare, and other consumer goods and services.
2. **Investment Expenditure (I):** Investment represents the spending by businesses and households on capital goods used for future production. This includes purchases of machinery, equipment, buildings, and other productive assets.
3. **Government Expenditure (G):** Government expenditure refers to the total spending by the government on goods, services, and infrastructure projects during the period. It includes spending on public services, defense, education, healthcare, and various development projects.
4. **Net Exports (Exports - Imports):** Net exports represent the difference between a country's total exports (the value of goods and services sold to other countries) and total imports (the value of goods and services purchased from other countries). If a country's exports exceed imports, it is a trade surplus, and if imports exceed exports, it is a trade deficit.

While above terminology provides a clear and straightforward way to understand the components of GDP, government documents often use more detailed terms to provide a more granular view of the economy.

Expenditure Category	Government term	Definition	Subcategories/Components	Examples
<b>C (Consumption)</b>	<b>Private Final Consumption Expenditure (PFCE)</b>	Total spending by households and non-profit institutions serving	<b>Household Final Consumption Expenditure (HFCE):</b> Spending by households on goods and	Buying groceries, paying for rent, purchasing clothes, and

		households (NPISHs) on goods and services.	services.	paying for medical services.
			<b>Non-Profit Institutions Serving Households Final Consumption Expenditure (NPIHs FCE):</b> Spending by non-profit institutions on behalf of households.	Expenditures by charities on providing free education, healthcare services.
<b>I (Investment)</b>	<b>Gross Capital Formation (GCF)</b>	Total value of investments in the economy, including GFCF, changes in inventories, and net acquisitions of valuables.	<b>Gross Fixed Capital Formation (GFCF):</b> Investments in long-term assets like buildings and machinery.	Construction of new factories, purchase of machinery.
			<b>Changes in Stocks (CIS):</b> Differences in stock levels of unsold goods, raw materials, and work-in-progress.	Increase in stock levels of raw materials.
			<b>Valuables:</b> Purchases minus disposals of valuables such as precious metals, stones, and art.	Buying and selling of gold.
<b>G (Government Spending)</b>	<b>Government Final Consumption Expenditure (GFCE)</b>	Total government spending on goods and services for direct public consumption or to provide public services.		Spending on public schools, healthcare, defense, and public safety.
<b>X - M (Net Exports)</b>	<b>Same as above</b>			

Therefore,  $GDP = PFCE + (GFCF + CIS + Valuables) + GFCE + (X-M)$

## Potential GDP

Potential GDP, also known as potential output or full employment GDP, refers to the level of real GDP an economy can produce when all of its resources are fully utilized, including labor, capital, and technology, while maintaining stable inflation.

Let's consider an example to illustrate potential GDP. Imagine a country with a workforce of 10 million people, factories, machinery, and other physical capital, as well as technological advancements. The country's potential GDP would be the maximum level of output it can produce when all 10 million workers are employed, factories are running at full capacity, and the available technology is fully utilized.

However, it's important to note that potential GDP does not imply that the economy always operates at this maximum level. Economic fluctuations, such as recessions or booms, can cause actual GDP to deviate from potential GDP. For instance, during a recession, there may be a decline in employment, businesses may operate below full capacity, and overall economic output may be lower than the economy's potential.

It's also worth mentioning that potential GDP is an estimate and can change over time. Factors such as population growth, changes in labor force participation rates, technological advancements, and improvements in productivity can influence the economy's potential output.

Understanding potential GDP is essential for policymakers and economists. It provides a benchmark to assess the performance of the economy, evaluate its growth potential, and design appropriate policies to achieve sustainable economic growth.

When actual GDP falls significantly below potential GDP, policymakers may implement measures to stimulate economic activity and bridge the [output gap](#). Conversely, if actual GDP exceeds potential GDP, policies may focus on maintaining price stability and preventing inflationary pressures.



### Factors that inhibit India from achieving its potential GDP

1. **Infrastructure Deficiencies:** Insufficient infrastructure, such as roads, ports, railways, and power supply, can lead to increased transportation costs, inefficient logistics, and limited connectivity between regions, which can negatively affect productivity and hinder the overall economic potential.  
For example, if there are frequent power outages in an area, it can disrupt industrial production and hamper business operations.
2. **Skill Gaps and Education:** The quality of human capital plays a crucial role in economic development. Skill gaps and deficiencies in education can limit productivity and hinder innovation.  
For instance, if there is a shortage of skilled healthcare professionals, it can limit the capacity to provide quality healthcare services, impacting the overall health sector's potential contribution to GDP.
3. **Regulatory Burden and Bureaucracy:** Complex and burdensome regulations, bureaucratic red tape, and corruption can impede business growth and deter investments. Cumbersome administrative processes and delays in obtaining permits can discourage entrepreneurship and hinder the expansion of businesses.

4. **Income Inequality:** When wealth and income are concentrated in the hands of a few, it can limit consumption and demand, as a large portion of the population may have limited purchasing power.
5. **Agricultural Sector Challenges:** Agriculture still plays a significant role in the Indian economy, and challenges in this sector can affect overall growth. Issues such as low agricultural productivity, fragmented landholdings, inadequate irrigation facilities, and vulnerability to climate change can limit the sector's potential contribution to GDP.

## **New GDP Series 2011-12**

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India adopted the new GDP series in 2015, with a base year of 2011-12. This series replaced the old series with a base year of 2004-05. The new series uses market prices instead of factor costs, which means that it includes indirect taxes and subsidies in the calculation of GDP.

Moreover, the new series also adopts the international practice of valuing industry-wise estimates based on Gross Value Added (GVA) at basic prices. GVA is the value of output minus the value of intermediate consumption.

The adoption of the new GDP series with a more recent base year and the use of market prices instead of factor costs provide a more accurate measure of the economy's size and growth rate. Moreover, valuing industry-wise estimates based on GVA at basic prices allows for a more detailed analysis of the contribution of different sectors to the economy.

## **Organizations**

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The organization in India responsible for calculating national income is the Central Statistics Office (CSO), which is a part of the Ministry of Statistics and Programme Implementation (MoSPI). The CSO is responsible for collecting, analyzing and publishing statistical data related to the Indian economy, including national income accounts. It uses various methods, including the production, income and expenditure methods, to estimate the Gross Domestic Product (GDP) and other measures of economic activity. The CSO releases estimates of national income and other macroeconomic indicators on a quarterly basis, and these estimates are widely used by policymakers, economists, and investors to understand the performance of the Indian economy.

Additionally, it's important to note that the National Sample Survey Office (NSSO), which was responsible for conducting large-scale surveys on various socio-economic indicators such as employment, consumer expenditure, health, education, household assets etc, has been merged with the CSO to form the National Statistical Office (NSO). This merger, effective since May 2019, aims to streamline and strengthen the statistical system by integrating the functions of the CSO and the NSSO under a single umbrella, thereby enhancing the efficiency of data collection and analysis in India.

## Additional Terms and Concepts

### Green GDP

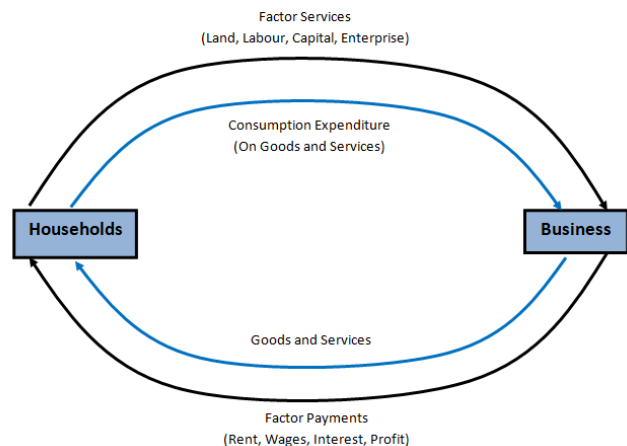
Green GDP is an economic measure that factors in environmental costs associated with economic activities. It adjusts the traditional Gross Domestic Product (GDP) by accounting for the depletion of natural resources and the degradation of the environment.

Example: Imagine a country that produces goods and services worth \$1 trillion in a year, which is its traditional GDP. However, during this production, significant deforestation occurs, and pollution increases. The environmental costs of these activities amount to \$100 billion. The Green GDP would be \$1 trillion (traditional GDP) minus \$100 billion (environmental costs), resulting in a Green GDP of \$900 billion. This provides a more accurate picture of the country's economic performance by considering environmental impacts.

### Circular Flow of Income

The circular flow of income is an economic model that illustrates how money moves through an economy. It shows the interactions between different sectors, such as households, businesses, and the government, and how they exchange goods, services, and money.

Example: In a simple economy, households provide labor to businesses and receive wages in return. They use these wages to buy goods and services from businesses. Businesses use the revenue from selling goods and services to pay for labor and other resources. This continuous loop of money and resources moving between households and businesses is the circular flow of income. If the government collects taxes and provides public services, it adds more complexity to this model but follows the same principle.



### Shadow Economy

The shadow economy, also known as the underground economy, refers to economic activities that are not reported to the government and therefore not included in official GDP statistics. These activities are typically conducted to avoid taxes or regulations.

Example: Consider a street vendor selling goods without a business license and not paying taxes on their earnings. The income generated from these sales is part of the shadow economy because it is not reported to tax authorities. Although this income contributes to the overall economy, it is not captured in official economic data.

### Stock Variable vs. Flow Variable

**Stock Variable:** A stock variable is a measure of a quantity at a specific point in time. It represents a snapshot of an economic variable at that moment, providing an idea of the amount or level of that variable.

Example: National Debt: The total amount of money that a country owes at a particular point in time. For instance, if a country's national debt is \$2 trillion on December 31, this is a stock variable because it measures the debt at a specific point in time.

**Flow Variable:** A flow variable is a measure of a quantity over a period of time. It represents the rate at which something occurs or is accumulated within a certain timeframe.

Example: Gross Domestic Product (GDP): The total value of all goods and services produced in a country over a specific period, typically a year or a quarter. For example, if a country's GDP is \$3.5 trillion for the year 2023, this is a flow variable because it measures the economic output over a year.

Stock Variable	Flow Variable
Measured at a single point in time.	Measured over a period of time.
National debt, inflation, money supply.	GDP, national income, investment, government spending.

### *System of National Accounts (SNA)*

The System of National Accounts (SNA) is a comprehensive framework used by countries worldwide to measure and analyze their economic activities. It provides a standardized set of concepts, definitions, classifications, and accounting rules to compile economic data consistently. The SNA helps in producing key economic indicators such as Gross Domestic Product (GDP), national income, and other measures of economic performance.

**Purpose:** The primary purpose of the SNA is to ensure that economic data from different countries can be compared accurately. By using a common framework, countries can produce statistics that are consistent and comparable, facilitating international economic analysis and decision-making.

India adopts the SNA framework to compile and analyze its national accounts and economic statistics. The Ministry of Statistics and Programme Implementation (MoSPI) is responsible for implementing the SNA in India.



## Previous Year Prelims Questions

1.	<p>Despite being a high saving economy, capital formation may not result in significant increase in output due to</p> <p>(a) weak administrative machinery (b) illiteracy (c) high population density (d) high capital-output ratio</p>	2018
2.	<p>With reference to the Indian economy, consider the following statements:</p> <p>(1) The rate of growth of Real Gross Domestic Product has steadily increased in the last decade. (2) The Gross Domestic Product at market prices (in rupees) has steadily increased in the last decade. Which of the statements given above is/are correct?</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	2015
3.	<p>Economic growth in country X will necessarily have to occur if</p> <p>(a) there is technical progress in the world economy (b) there is population growth in X (c) there is capital formation in X (d) the volume of trade grows in the world economy</p>	2013
4.	<p>The national income of a country for a given period is equal to the</p> <p>(a) total value of goods and services produced by the nationals (b) sum of total consumption and investment expenditure (c) sum of personal income of all individuals (d) money value of final goods and services produced</p>	2013

## Previous Years Mains Questions

1.	Define potential GDP and explain its determinants. What are the factors that have been inhibiting India from realizing its potential GDP?	2020
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### Answers

1.	D	2.	D
3.	C	4.	D

# 3

CHAPTER

GROWTH &  
DEVELOPMENT

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# Chapter 3

## Growth and Development

**Economic growth** refers to an increase in the production of goods and services within a country over a specific period. It is typically measured by the growth rate of the Gross Domestic Product (GDP).

**Economic development**, on the other hand, is a broader concept that encompasses various aspects beyond just economic growth. It focuses on improving the standard of living, reducing poverty, and enhancing the well-being of the population. Economic development takes into account social, cultural, and institutional factors in addition to economic factors.

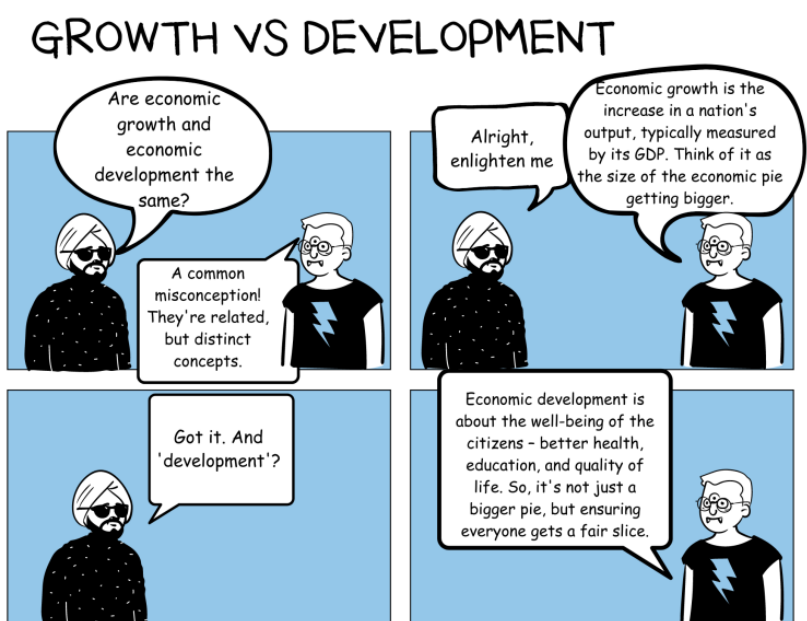
For example: Imagine a country that has achieved high economic growth but still faces significant income inequality and lacks access to basic education and healthcare for its citizens. In this case, despite the economic growth, the country might still be considered underdeveloped because it has not effectively translated that growth into improving the overall welfare of its people.

It's worth noting that economic growth is an essential component of economic development, as it provides the necessary resources and opportunities for development to occur.

However, economic development goes beyond mere growth and focuses on achieving long-term improvements in the quality of life for individuals and communities.

There can be situations where economic growth goes against economic development.

- Environmental Degradation:** Industries may exploit natural resources, pollute air and water, and contribute to climate change. While this economic growth may generate short-term benefits, it can harm the environment, affect public health, and undermine the long-term sustainability and well-being of the population.
- Rising Income Inequality:** Economic growth does not always benefit all segments of society equally. In some cases, it can exacerbate income inequality, where the rich become richer while the poor are left behind. Example: Imagine a scenario where a country achieves substantial economic growth driven by sectors that primarily benefit the wealthy, such as finance or high-end real estate.
- Neglecting Social Welfare:** In the pursuit of economic growth, a country may prioritize profit-driven policies and neglect social welfare programs. This can lead to inadequate investment in education,



healthcare, social safety nets, and infrastructure that are crucial for sustainable development. The result is a lack of human capital development and an underprivileged population, which can hinder long-term economic progress.

4. **Production and consumption of harmful products:** such as alcohol, cigarettes, or other addictive substances.

## Measuring Economic Growth

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Economic growth is typically measured using indicators such as Gross Domestic Product (GDP), Gross National Product (GNP), National Income etc. We have already studied these in previous chapter.

### Important factors that contribute to economic growth

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1. **Investment:** Investment involves spending money on things like factories, equipment, technology, and infrastructure. When businesses invest, it leads to increased production and job creation. Investment also boosts innovation and productivity, which are essential for long-term economic growth.
2. **Savings:** Savings refer to the portion of income that individuals, businesses, and the government set aside for future use instead of immediate consumption. Savings contribute to investment and capital formation, providing resources for businesses to expand their operations, create jobs, and foster economic growth.
3. **Human Capital:** Human capital refers to the knowledge, skills, and abilities of people in the workforce. When people are well-educated and healthy, they can work more efficiently, come up with new ideas, and contribute to economic growth.
4. **Technological Progress:** Technological progress can lead to increased efficiency, productivity, and the creation of new industries and jobs. For example, the development of smartphones and internet connectivity has transformed the way we communicate and do business, contributing to economic growth.
5. **Infrastructure:** Well-developed infrastructure enables businesses to operate smoothly, reduces transportation costs, and attracts investments. It also improves the quality of life for citizens.
6. **Natural Resources:** Natural resources, such as minerals, oil, and fertile land, can contribute to economic growth. However, it's important to manage and utilize natural resources sustainably to ensure long-term economic growth and environmental preservation.
7. **Stable Institutions:** Stable institutions, including the rule of law, property rights protection, and an efficient legal system, are crucial for economic growth. When institutions are strong and transparent, it creates an environment where businesses can thrive, investments are protected, and contracts are enforced. This fosters trust, attracts investments, and promotes economic growth.
8. **Macroeconomic Stability:** Macroeconomic stability refers to keeping key economic indicators, such as inflation, unemployment, and government debt, in check. When inflation is low and stable, businesses and individuals can plan for the future with confidence. Managing government finances responsibly and maintaining a stable currency also contribute to economic growth.
9. **Trade and Global Integration:** Access to larger markets, exposure to foreign competition, and the transfer of knowledge and technology can lead to increased productivity and innovation. Trade agreements and policies that facilitate exports and imports play a significant role in leveraging growth potential.



## Jobless Growth

Jobless growth refers to a situation where an economy experiences economic growth, such as an increase in GDP (Gross Domestic Product) or overall production, but fails to create enough new jobs for the growing population. In other words, even though the economy is expanding, unemployment remains high or continues to rise.

### Reasons for jobless growth

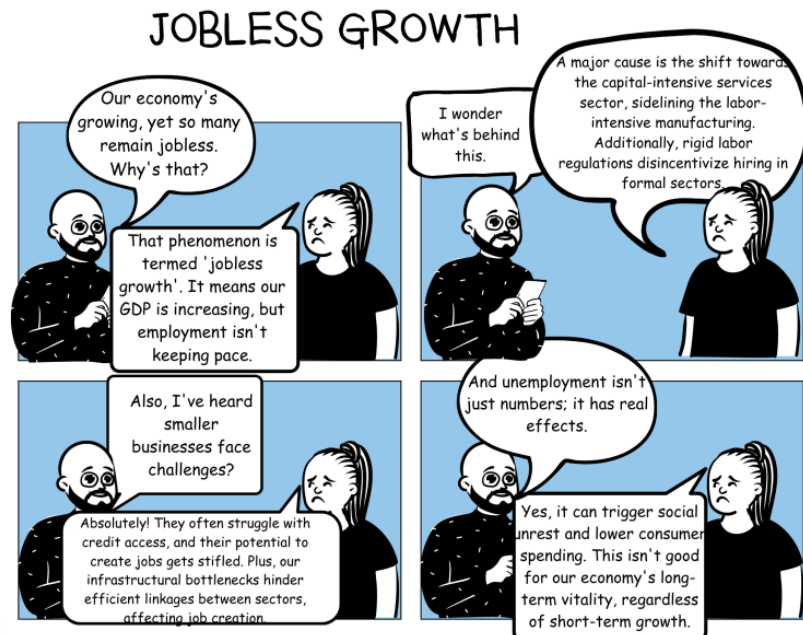
#### 1. Technological Advancements:

Technological advancements can lead to increased automation and the use of machines instead of human labor. While this can boost productivity and economic growth, it may also result in job losses as fewer workers are needed.

#### 2. Skill Mismatch:

Jobless growth can occur when there is a mismatch between the skills demanded by employers and the skills possessed by the job seekers. For instance, if the country experiences a surge in demand for computer programming jobs, but the majority of its workforce lacks the necessary skills and qualifications. In this case, despite economic growth, there may be a shortage of qualified individuals to fill the available job positions.

- #### 3. Structural Changes:
- Sometimes, an economy undergoes structural changes, such as a shift from an agricultural-based economy to a service-oriented economy. During this transition, certain industries may decline or become less labor-intensive, leading to job losses. For example, if the country's economy evolves from primarily relying on farming to focusing more on services. Farmers who lose their jobs may face difficulties finding new employment opportunities in the emerging sectors.



### Steps that can be taken to address jobless growth

- Enhancing Education and Skills Training:** Investing in education and skills training programs can help individuals acquire the skills needed for the available job opportunities. By aligning educational curricula with the demands of the job market, it becomes easier for people to develop the required competencies and increase their chances of finding employment.
- Promoting Entrepreneurship:** Encouraging entrepreneurship can foster the creation of new businesses, which, in turn, can generate job opportunities. Governments can support aspiring entrepreneurs through startup incubators, access to capital, and business-friendly policies, thereby stimulating job creation.
- Revitalizing Traditional Industries:** While transitioning to new industries is essential, revitalizing traditional sectors can also contribute to job creation. Governments can provide incentives and

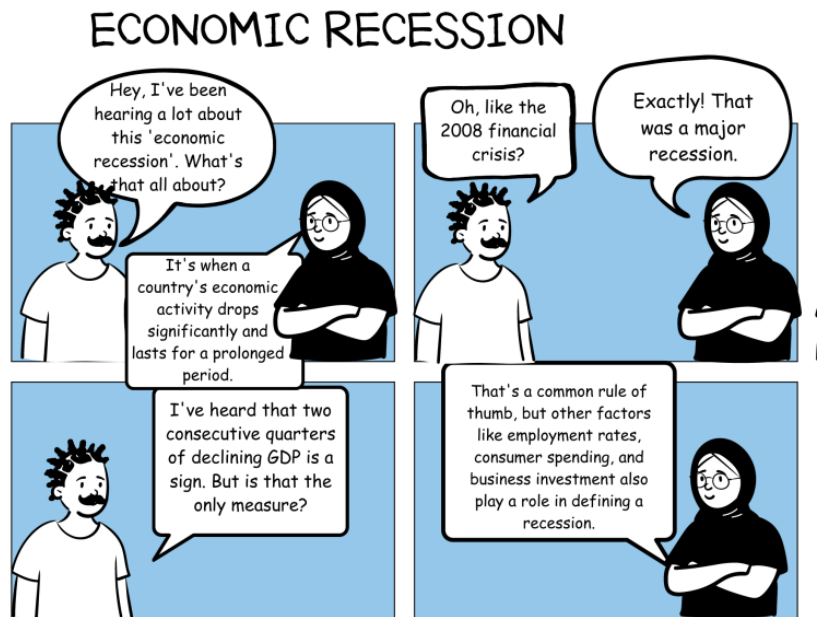
support to revive declining industries or encourage innovation within them, ensuring that job losses are minimized.

4. **Labor Market Reforms:** Reforms in labor market regulations can help create a more flexible and conducive environment for job creation. Simplifying labor laws, reducing bureaucratic hurdles, and promoting labor mobility can make it easier for businesses to hire and expand their workforce.
5. **Infrastructure Development:** Investments in infrastructure projects, such as building roads, bridges, and transportation systems, can stimulate economic growth and create job opportunities in construction and related sectors.

## Economic Recession

An economic recession refers to a significant and prolonged decline in a country's overall economic activity. While the two consecutive quarters of declining GDP is a commonly used rule of thumb, it's not the only factor considered in defining a recession. Economists also examine other economic indicators such as employment rates, consumer spending, business investment, and industrial production to assess the overall health of the economy.

The government can take several steps to help overcome economic recession:



1. **Fiscal Stimulus:** The government can implement fiscal stimulus measures by increasing government spending on infrastructure projects, such as building roads, bridges, or schools. This injection of funds stimulates economic activity, creates jobs, and encourages consumer spending.
2. **Monetary Policy:** Central bank can lower interest rates to make borrowing cheaper for businesses and individuals, encouraging investment and consumption. Central banks can also engage in quantitative easing, which involves purchasing government bonds to increase the money supply and provide liquidity to financial institutions.
3. **Tax Cuts:** The government can reduce taxes on individuals and businesses to increase disposable income and incentivize spending. Additionally, targeted tax cuts for specific sectors or industries can provide relief to struggling areas of the economy.
4. **Support for Small Businesses:** Small businesses are particularly vulnerable during a recession. The government can provide financial support, such as low-interest loans, grants, or tax breaks, to help them stay afloat and retain employees.
5. **Job Creation Programs:** This may include creating public works projects that provide employment opportunities, or offering subsidies to businesses that hire and train new employees.
6. **Regulatory Reforms:** Governments can review and streamline regulations to reduce bureaucratic burdens on businesses, making it easier for them to operate and expand. This can encourage entrepreneurship, innovation, and investment, leading to increased economic activity.

7. **International Cooperation:** Countries can collaborate on policies to stimulate global trade and restore confidence in the international financial system.

## Measuring Economic Development

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### Human Development Index (HDI)

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The Capability Approach, developed by economist Amartya Sen, focuses on assessing human well-being beyond just income or resources. It emphasizes what individuals are able to do (functionings) and their actual freedoms to achieve those things (capabilities). The Human Development Index, or HDI, embodies Amartya Sen's "capabilities" approach to understanding human well-being.

HDI is a measure used to assess the overall well-being and development of a country's population. The Human Development Index looks at three key dimensions of human development:

1. **Health:** The HDI considers life expectancy at birth, which reflects the overall health and healthcare access within a country.
2. **Education:** Education is another crucial aspect of human development. The HDI looks at two indicators:
  - **Mean years of schooling:** It reflects the average number of years of education received by adults in a country.
  - **Expected years of schooling:** It measures the number of years of education that a child is expected to receive throughout their life.
3. **Standard of living:** This dimension focuses on the economic well-being of the population. It considers the Gross National Income (GNI) per capita, which reflects the average income of individuals in a country.

Using these three dimensions, the HDI combines the indicators to calculate a composite index ranging from 0 to 1, where 1 represents the highest level of human development. By considering health, education, and standard of living, the HDI provides a more holistic view of a country's development beyond just economic factors.

### Inequality-Adjusted Human Development Index (IHDI)

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The Human Development Index (HDI) takes into account factors such as life expectancy, education, and income. However, the HDI does not consider inequality within a country, meaning it doesn't capture disparities in these factors among different groups or regions within a country.

This is where the Inequality-Adjusted Human Development Index (IHDI) comes in. The IHDI adjusts the HDI by incorporating the level of inequality within a country. It provides a more comprehensive picture of a country's development by considering not only the average achievements but also the distribution of those achievements among its population.

The IHDI helps policymakers and researchers identify areas where inequality is high and take measures to address them. By considering inequality, it allows for a more nuanced understanding of development outcomes and helps guide efforts towards creating more inclusive societies.

### Gender Inequality Index (GII)

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The Gender Inequality Index (GII) is a measure used to assess and compare gender inequality across countries. It takes into account various indicators related to women's empowerment, reproductive

health, and economic participation. The index ranges from 0 to 1, with higher values indicating higher levels of gender inequality.

Let's break down the components of the GII:

1. **Reproductive Health:** This component looks at maternal mortality rates and adolescent birth rates. It reflects the access women have to reproductive health services and the risks they face during childbirth.
2. **Empowerment:** This component focuses on the political and economic empowerment of women. It considers factors such as the percentage of women in parliament and the labor force participation rate.
3. **Economic Participation:** This component looks at gender gaps in employment and income. It examines the disparity between men and women in terms of access to employment opportunities and earnings.

By considering these indicators and their respective weights, the GII provides a comprehensive measure of gender inequality in a country. It helps policymakers identify areas of improvement and track progress over time.

## Challenges to Economic Development

1. **Poverty and Inequality:** In many developing countries, a large percentage of the population lives in poverty, while a small portion enjoys significant wealth. This creates social unrest and hampers economic development.
2. **Unemployment and Underemployment:** High levels of unemployment and underemployment can lead to wasted human potential and reduced productivity. This puts a strain on the economy and slows down overall development.
3. **Lack of Infrastructure:** Insufficient infrastructure can impede economic growth by limiting transportation, communication, and energy access.
4. **Corruption and Governance:** When corruption is widespread, it undermines trust in institutions, discourages foreign investment, and diverts resources away from productive sectors. Weak governance can hinder economic development by creating an unstable business environment.
5. **Lack of Access to Capital and Credit:** Access to capital and credit is crucial for entrepreneurs and businesses to invest, expand, and create jobs.
6. **Environmental Sustainability:** Overexploitation of forests, pollution of water bodies, and excessive carbon emissions can damage ecosystems, harm public health, and reduce the availability of resources needed for future economic activities.

## Government Initiatives to bring Economic Development

Sectors	Government Initiatives	Brief Description
Agriculture	Pradhan Mantri Kisan Samman Nidhi (PM-KISAN)	Direct income support to small and marginal farmers
	Soil Health Card Scheme	Information on soil nutrients and recommended fertilizers
	Pradhan Mantri Fasal Bima Yojana (PMFBY)	Crop insurance against losses due to natural calamities
Education	Sarva Shiksha Abhiyan (SSA)	Free and compulsory education for all

		children
	Rashtriya Madhyamik Shiksha Abhiyan (RMSA)	Focus on improving secondary education infrastructure
	Skill India Mission	Skill development training for better job prospects
<b>Health</b>	Ayushman Bharat - Pradhan Mantri Jan Arogya Yojana (PM-JAY)	Health insurance for economically vulnerable sections
	National Health Mission (NHM)	Improving healthcare infrastructure and accessibility
	Swachh Bharat Mission	Promoting cleanliness and sanitation for better public health
<b>Infrastructure</b>	Bharatmala Pariyojana	Road development for improved connectivity and trade
	Smart Cities Mission	Development of efficient infrastructure in selected cities
	Sagarmala Project	Modernizing ports and promoting port-led industrialization
<b>Financial Systems</b>	Pradhan Mantri Jan Dhan Yojana (PMJDY)	Financial inclusion through banking services
<b>MSME</b>	Atmanirbhar Bharat Abhiyan	Promoting self-reliance and support for the MSME sector
	Make in India	Encouraging domestic manufacturing and entrepreneurship

## Additional Terms and Concepts

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### Harrod-Domar Model

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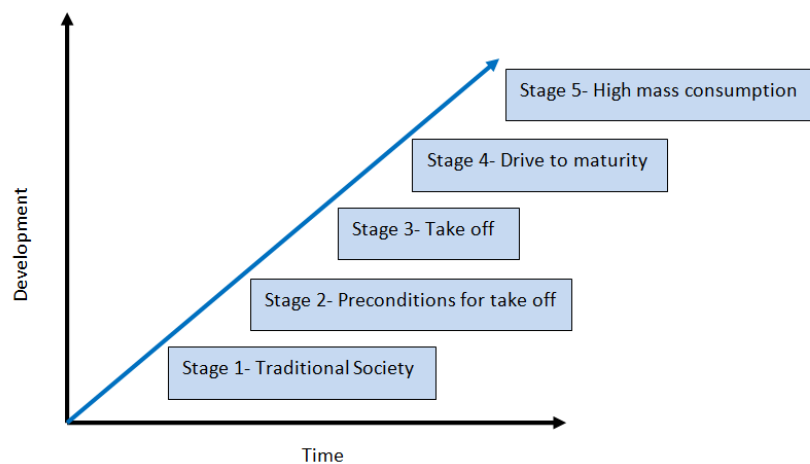
The Harrod-Domar model is an economic theory that suggests economic growth depends on the amount of saving and the productivity of capital investment. It highlights the importance of savings and investments for achieving sustainable economic growth.

### Rostow's Stages of Growth

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Rostow's Stages of Growth is a theory that outlines five stages through which an economy progresses as it develops. These stages are: Traditional Society, Preconditions for Take-off, Take-off, Drive to Maturity, and Age of High Mass Consumption.

1. **Traditional Society:** An economy primarily based on agriculture with limited technology and a static structure.
2. **Preconditions for Take-off:** The beginnings of industrialization, with investments in infrastructure and changes in social and political structures.
3. **Take-off:** Rapid industrial growth, technological advancements, and significant economic changes.
4. **Drive to Maturity:** The economy diversifies, technological advancements spread, and the standard of living improves.
5. **Age of High Mass Consumption:** The economy shifts towards consumer goods and services, with high standards of living and widespread consumption.



### Savings Rate

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The savings rate is the percentage of income that individuals or households save rather than spend on consumption. It is an important indicator of financial health and economic behavior.

Example: If an average household in India earns ₹50,000 per month and saves ₹10,000, their savings rate is 20%. A higher savings rate indicates that households are saving a larger portion of their income, which can be beneficial for long-term financial stability.

### Resource Curse

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The resource curse, also known as the paradox of plenty, is a phenomenon where countries with abundant natural resources, such as oil or minerals, tend to experience less economic growth and worse development outcomes than countries with fewer natural resources. This is often due to factors like mismanagement of resources, corruption, and a lack of economic diversification.

Example: Nigeria is a country rich in oil resources. However, instead of leading to widespread prosperity, the wealth from oil has often been associated with corruption, conflict, and poor governance. Many people in oil-rich regions live in poverty, and the economy remains heavily dependent on oil exports, with little development in other sectors. This situation exemplifies the resource curse, where abundant resources do not translate into broad-based economic development.

### *Paradox of Thrift*

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The Paradox of Thrift suggests that while saving is beneficial for an individual, if everyone saves more and spends less during a recession, it can lead to a decrease in overall economic demand, worsening the recession.

Example: During a recession, people become more cautious and save money instead of spending it. However, when everyone does this, businesses suffer from lower sales, leading to layoffs and further economic decline. So, even though saving is good for individuals, it can be harmful to the economy as a whole during tough economic times.

### *Goldilocks Economy*

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A Goldilocks economy is one that is not too hot (causing inflation) and not too cold (leading to a recession). It is "just right," with stable economic growth, low unemployment, and low inflation.

### *Middle Income Trap*

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The middle income trap is a situation where a country that has achieved a certain level of income gets stuck at that level and struggles to transition to high-income status. This can happen due to a lack of innovation, insufficient investment in education, and weak institutions.

Example: Many countries in Latin America and Southeast Asia have experienced the middle income trap. For instance, Malaysia has been classified as a middle-income country for many years and has struggled to move into the high-income category due to challenges like low productivity growth and limited technological innovation. A significant challenge for policy makers in India is to avoid the Middle Income Trap.

### Previous Years Prelims Questions

1.	Increase in absolute and per capita real GNP do not connote a higher level of economic development, if  (a) industrial output fails to keep pace with agricultural output. (b) agricultural output fails to keep pace with industrial output. (c) poverty and unemployment increase. (d) imports grow faster than exports.	2018
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### Previous Years Mains Questions

1.	“Economic growth in the recent past has been led by increase in labour productivity.” Explain this statement. Suggest the growth pattern that will lead to creation of more jobs without compromising labour productivity.	2022
2.	Among several factors for India’s potential growth, the savings rate is the most effective one. Do you agree? What are the other factors available for growth potential?	2017
3.	The nature of economic growth in India is described as jobless growth. Do you agree with this view? Give arguments in favour of your answer.	2015

### Answers

1.	C		
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# CHAPTER 4

INCLUSIVE GROWTH  WITH



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# Chapter 4

## Inclusive Growth

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Inclusive growth is a type of economic growth that benefits all members of society, regardless of their social or economic status. This means that the growth is not limited to a select group of people, but rather it is widely distributed across different segments of the population.

Inclusive growth is characterized by a reduction in poverty, a decrease in inequality, and an improvement in the overall well-being of individuals.

Inclusive growth can be achieved through policies and programs that promote equal access to education, healthcare, employment, and other basic services. This includes providing opportunities for marginalized groups such as women, people with disabilities, and minorities to participate in the growth process.

### Importance of inclusive growth in India

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In India, inclusive growth is particularly important for several reasons. First, India is a country with a large and diverse population, with many people living in poverty and facing significant socio-economic challenges. For this reason, it is important to ensure that economic growth benefits all sections of society, especially those who are marginalized and vulnerable.

Second, inclusive growth is essential for reducing inequality and promoting social justice. In India, inequality is a major problem, with vast disparities in income, wealth, and access to basic services such as education, healthcare, and sanitation. Inclusive growth can help to address these inequalities by providing opportunities for all sections of society to participate in the growth process and share in its benefits.

Third, inclusive growth is critical for sustainable development. India faces several environmental challenges, including air and water pollution, deforestation, and climate change. Inclusive growth can help to promote sustainable development by encouraging the adoption of sustainable practices and technologies, and by ensuring that the benefits of economic growth are not achieved at the expense of the environment.

For example, if a country's economic growth is driven by the expansion of a polluting industry, such as coal mining, then the benefits of that growth may be concentrated in the hands of a few wealthy individuals or companies, while the costs of pollution and environmental degradation are borne by the local communities and the environment. In contrast, if economic growth is achieved through the adoption of clean technologies and sustainable practices, then the benefits can be shared more widely, and the costs of environmental degradation can be minimized.

In summary, inclusive growth is essential for promoting social justice, reducing inequality, and achieving sustainable development in India.

## Salient features of inclusive growth

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1. **Reduction of Poverty:** One of the key features of inclusive growth is the reduction of poverty. This means that policies and strategies are designed to lift people out of poverty and provide them with the necessary resources to improve their standard of living. For example, the government may implement poverty alleviation schemes such as providing access to education, healthcare, and social safety nets.
2. **Employment Generation:** Inclusive growth also focuses on creating job opportunities for people, particularly in sectors that are labor-intensive. By creating jobs, people are able to participate in the growth process and improve their economic status. For example, the government may promote the development of micro, small and medium-sized enterprises (MSMEs), which are known to generate employment.
3. **Reduction of Inequality:** Inclusive growth aims to reduce inequality by providing equal opportunities to all individuals. This means that policies are designed to bridge the gap between the rich and the poor, and to ensure that everyone has access to basic services and resources. For example, the government may implement affirmative action policies that provide reserved seats in educational institutions and government jobs for marginalized communities.
4. **Sustainable Development:** Inclusive growth also prioritizes sustainable development, which means that economic growth is pursued in a way that does not harm the environment or deplete natural resources. For example, the government may promote renewable energy and sustainable agriculture practices.
5. **Human Development:** Inclusive growth also focuses on human development, which means that policies and strategies are designed to improve the quality of life of people, not just their income. This includes access to education, healthcare, and other basic services that contribute to overall well-being.

## Analysis of India's progress towards achieving inclusive growth

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India has been making progress towards achieving inclusive growth in recent years, but there is still much work to be done. Inclusive growth can be measured through various indicators such as the Multidimensional Poverty Index (MPI), Human Development Index (HDI), and Gender Inequality Index (GII).

The **Multidimensional Poverty Index (MPI)** is a measure of poverty that takes into account multiple dimensions of deprivation, such as health, education, and standard of living. According to the Global Multidimensional Poverty Index 2021, India's MPI has declined from 54.7% in 2019 to 49.9% in 2021, indicating a reduction in the number of people living in multidimensional poverty. This means that India has made progress in improving access to basic services such as healthcare, education, and sanitation, which are essential for inclusive growth.

The **Human Development Index (HDI)** is a composite measure of three key dimensions of human development: health, education, and standard of living. With an HDI value of 0.633, India ranked 132 out of 191 countries in the 2021 human development index, highlighting the need for further progress towards achieving inclusive growth.

The **Gender Inequality Index (GII)** is a measure of gender-based inequalities in three dimensions: reproductive health, empowerment, and economic activity. India stood at rank 122 out of 191 countries with a score of 0.490 in the Gender Inequality Index 2021, indicating the need for further efforts towards achieving gender equality and inclusive growth.

Other indicators such as the poverty rate, literacy rate, and access to basic services also reflect India's progress towards achieving inclusive growth. However, despite these positive developments,

India still faces several challenges in achieving inclusive growth, such as regional disparities, gender-based inequalities, and lack of access to basic services in certain areas. Therefore, there is a need for continued efforts towards promoting inclusive growth through policies and programs that address these challenges and promote equitable development.

## Challenges in achieving inclusive growth in India

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India is a country with a large population and a diverse range of social and economic challenges. Achieving inclusive growth is a major challenge in India. Here are some of the challenges that hinder the achievement of inclusive growth in India:

1. **Income Inequality:** Income inequality is a major challenge in India, as there is a significant disparity in income levels between different sections of society. As per Oxfam Report, The wealthiest 10 per cent own more than 72 per cent of wealth, and the top 5 per cent own nearly 62 per cent of the total wealth and the top 1 per cent own more than 13 times the wealth owned by the bottom half of the society, with nearly 40.6 per cent of the total wealth in India. This makes it difficult to ensure that the benefits of economic growth are shared equitably among all sections of society.
2. **Regional Disparities:** There are significant regional disparities in India, with some regions being more developed than others. For example, states like Maharashtra and Gujarat are more developed than states like Bihar and Uttar Pradesh. This makes it difficult to ensure that the benefits of economic growth are shared equitably across all regions.
3. **Unemployment:** Unemployment is a major challenge in India, with a large percentage of the population being either unemployed or underemployed. This makes it difficult to ensure that the benefits of economic growth are shared equitably among all sections of society.
4. **Lack of Access to Education and Healthcare:** Access to education and healthcare is limited for many people in India, particularly those living in rural areas. This limits their ability to participate in the workforce and to benefit from economic growth.
5. **Social Discrimination:** Discrimination based on caste, religion, and gender is a significant challenge in India. This limits the ability of certain sections of society to participate in the workforce and to benefit from economic growth.

## Investment in Infrastructure for Inclusive Economic Growth

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Investment in physical and digital infrastructure is a crucial factor in promoting inclusive growth.

### Physical Infrastructure

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Physical infrastructure refers to the basic facilities and structures that are necessary for the economy to function, such as roads, bridges, ports, airports, and power plants. Investment in physical infrastructure can help in inclusive growth in the following ways:

1. **Improved Connectivity** - Investment in physical infrastructure can help to improve connectivity across the country. This can reduce regional disparities and promote inclusive growth. For example, a good road network can enable farmers in remote areas to access markets, leading to better prices for their produce and a reduction in poverty.
2. **Increased Productivity** - Investment in physical infrastructure can lead to increased productivity. For example, better transportation facilities can reduce transportation costs and time, making it easier for businesses to move goods and people. This can lead to increased economic activity and job creation.

3. **Increased Access to Basic Services** - Investment in physical infrastructure can help to increase access to basic services such as education, healthcare, and sanitation. For example, the construction of schools and hospitals can help to improve the quality of education and healthcare in rural areas, reducing the gap between urban and rural areas.

## Digital Infrastructure

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Digital infrastructure refers to the technology and networks that enable the exchange of information, such as the internet, mobile networks, and computer systems. Investment in digital infrastructure can help in inclusive growth in the following ways:

1. **Improved Access to Information** - Investment in digital infrastructure can help to improve access to information, which is essential for economic growth. For example, farmers can use mobile apps to access information on crop prices, weather forecasts, and agricultural practices, leading to better decision-making and increased productivity.
2. **Increased Economic Participation** - Investment in digital infrastructure can help to increase economic participation, especially for marginalized communities. For example, e-commerce platforms can help small businesses to sell their products online, reaching a wider customer base and increasing their revenue.
3. **Improved Service Delivery** - Investment in digital infrastructure can help to improve service delivery, especially in areas such as healthcare and education. For example, telemedicine and online education platforms can help to provide healthcare and education services to people in remote areas, reducing the gap between urban and rural areas.

## Intra-generational and Inter-generational Equity in Inclusive Growth

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**Intra-generational equity** refers to fairness and justice within a single generation, which means that all members of a particular generation should have equal access to resources, opportunities, and benefits. For example, in India, there are many regions where people don't have access to basic necessities like clean drinking water, education, and healthcare. Intra-generational equity demands that every individual within a generation should have equal access to these resources, regardless of their caste, religion, gender, or socio-economic status.

On the other hand, **inter-generational equity** refers to fairness and justice between different generations. It means that the current generation should not use up all the resources and leave nothing for future generations. For instance, if we over-exploit natural resources such as forests, water, and minerals, then the future generations will be deprived of these resources, and it will create an inequitable situation. Inter-generational equity demands that we use natural resources in a sustainable manner so that future generations can also enjoy the same resources and opportunities as we do.

Inclusive growth is a concept that seeks to address both intra-generational and inter-generational equity. By promoting inclusive growth, we aim to ensure that everyone within a generation has equal access to resources and opportunities, and that the benefits of economic growth are distributed fairly. Moreover, inclusive growth seeks to ensure that economic growth is sustainable, so that future generations can also enjoy the same benefits.



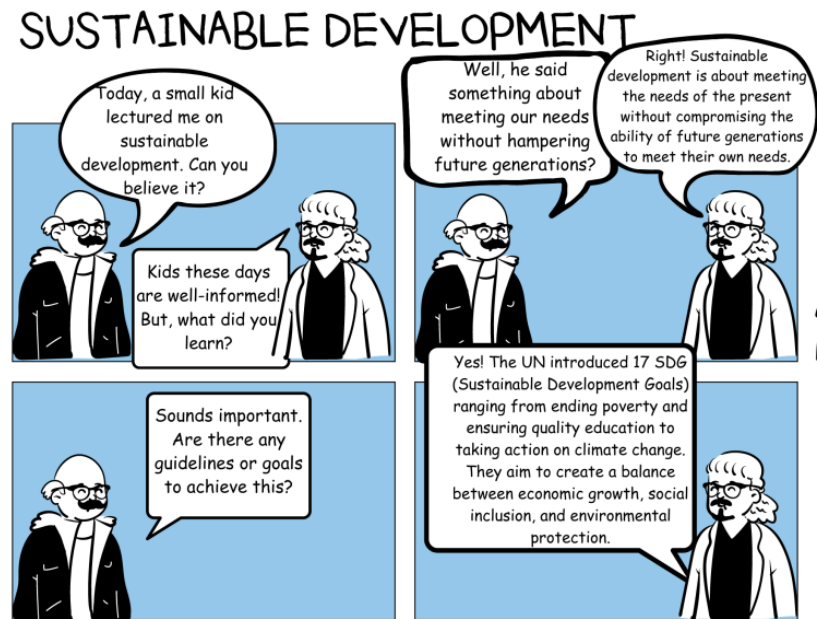
## The relationship between inclusiveness and sustainability

Inclusive growth strategies aim to create opportunities and reduce inequality, which can lead to more sustainable economic development over the long term.

Inclusive growth can contribute to sustainability by promoting social and economic stability, which is important for long-term growth. Conversely, unsustainable practices can undermine inclusiveness by depleting resources and exacerbating inequality.

## Strategies for Achieving Inclusiveness and Sustainability

Inclusive growth and sustainability can be achieved through policies and practices that promote access to education, healthcare, and other essential services, as well as opportunities for economic participation and growth. Sustainable practices can also enhance inclusiveness by creating jobs and economic opportunities that benefit marginalized communities and reduce poverty. Examples of inclusive and sustainable policies include investments in renewable energy, public transportation, and affordable housing.



## Measures for addressing the challenges of inclusive growth

1. **Policies that promote equality:** Governments can develop policies that promote equality, such as progressive taxation, minimum wage laws, and affirmative action programs. These policies can help to reduce income and wealth inequality and ensure that everyone has access to basic services and opportunities.
2. **Investment in human capital:** Governments and other stakeholders can invest in human capital through education and training programs, particularly for disadvantaged groups. This can help to reduce the skills gap and ensure that everyone has access to quality education and training.
3. **Access to finance:** Access to finance is crucial for economic growth and development. Governments and other stakeholders can promote financial inclusion by providing access to affordable credit and other financial services, particularly for micro, small and medium-sized enterprises (MSMEs) and marginalized groups.

4. **Support for MSMEs:** MSMEs are the backbone of many economies and can play a significant role in promoting inclusive growth. Governments can provide support to MSMEs through policies that promote entrepreneurship, such as tax incentives and access to finance.
5. **Infrastructure development:** Infrastructure development is critical for economic growth and can help to create jobs and improve access to basic services. Governments can invest in infrastructure projects that benefit all members of society, particularly those who are marginalized or disadvantaged.
6. **Social protection:** Social protection measures, such as social security, unemployment insurance, and health care, can help to reduce poverty and ensure that everyone has access to basic services. Governments can develop social protection programs that are targeted at marginalized groups and those living in poverty.
7. **Stakeholder engagement:** Inclusive growth requires the involvement of all stakeholders, including the private sector, civil society, and marginalized groups. Governments can promote stakeholder engagement through inclusive decision-making processes and partnerships between different sectors.

## Inclusive Growth in a Market Economy

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Inclusive growth in a market economy requires a balance between economic growth and social inclusion. Market economies rely on market mechanisms, such as competition and prices, to allocate resources and create wealth. However, without appropriate policies and interventions, market economies can exacerbate inequality and exclude certain groups from economic opportunities. Here are some ways to promote inclusive growth in a market economy:

1. **Pro-poor policies:** Governments can develop policies that are targeted at reducing poverty and inequality, such as progressive taxation, social protection programs, and subsidies for basic services. These policies can help to ensure that everyone has access to basic needs and opportunities, regardless of their income level.
2. **Access to finance:** Access to finance is crucial for economic growth and development. Governments can promote financial inclusion by providing access to affordable credit and other financial services, particularly for micro, small and medium-sized enterprises (MSMEs) and marginalized groups.
3. **Investment in human capital:** Governments and other stakeholders can invest in human capital through education and training programs, particularly for disadvantaged groups. This can help to reduce the skills gap and ensure that everyone has access to quality education and training.
4. **Support for MSMEs:** MSMEs are the backbone of many economies and can play a significant role in promoting inclusive growth. Governments can provide support to MSMEs through policies that promote entrepreneurship, such as tax incentives and access to finance.
5. **Infrastructure development:** Infrastructure development is critical for economic growth and can help to create jobs and improve access to basic services. Governments can invest in infrastructure projects that benefit all members of society, particularly those who are marginalized or disadvantaged.
6. **Competition policy:** Competition policy is essential for promoting market efficiency and ensuring that prices reflect market conditions. However, governments need to ensure that competition policy does not create market concentration and exclude smaller players from the market.
7. **Stakeholder engagement:** Inclusive growth requires the involvement of all stakeholders, including the private sector, civil society, and marginalized groups. Governments can promote stakeholder engagement through inclusive decision-making processes and partnerships between different sectors.

By balancing market mechanisms with appropriate policies and interventions, governments can create an enabling environment that promotes inclusive growth and sustainable development for all.

## Previous Years Mains Questions

1.	Is inclusive growth possible under market economy? State the significance of financial inclusion in achieving economic growth in India.	2022
2.	“Investment in infrastructure is essential for more rapid and inclusive economic growth.” Discuss in the light of India’s experience.	2021
3.	Explain intra-generational and inter-generational issues of equity from the perspective of inclusive growth and sustainable development.	2020
4.	It is argued that the strategy of inclusive growth is intended to meet the objectives of inclusiveness and sustainability together. Comment on this statement.	2019
5.	“Access to affordable, reliable, sustainable and modern energy is the sine qua non to achieve Sustainable Development Goals (SDGs)”. Comment on the progress made in India in this regard.	2018
6.	What are the salient features of ‘inclusive growth’? Has India been experiencing such a growth process? Analyze and suggest measures for inclusive growth.	2017
7.	Comment on the challenges for inclusive growth which include careless and useless manpower in the Indian context. Suggest measures to be taken for facing these challenges.	2016
8.	Capitalism has guided the world economy to unprecedented prosperity. However, it often encourages shortsightedness and contributes to the wide disparities between the rich and the poor. In this light, would it be correct to believe and adopt capitalism driving inclusive growth in India? Discuss.	2014
9.	With consideration towards the strategy of inclusive growth, the new Companies Bill, 2013 has indirectly made CSR a mandatory obligation. Discuss the challenges expected in its implementation in the right earnest. Also, discuss other provisions in the Bill and their implications.	2013

# 5 CHAPTER

INEQUALITY  &  
POVERTY



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# Chapter 5

## Inequality and Poverty

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Despite being one of the fastest growing economies in the world, India continues to grapple with high levels of income inequality and widespread poverty. This has significant implications for the country's development, as well as the well-being of its citizens.

### Inequality

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Inequality refers to the unequal distribution of resources or opportunities among individuals or groups within a society.

### Types of Inequality

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Inequality can be broadly classified into social inequality and economic inequality.

**Social inequality:** Social inequality refers to differences in social status, power, and prestige among individuals or groups. It can include differences in things like education, occupation, income, race, gender, caste and religion. For example, in India, the caste system historically led to social inequality where people were discriminated against based on their caste, resulting in a lack of access to resources and opportunities.

**Economic inequality:** Economic inequality refers to differences in income, wealth, and economic opportunities among individuals or groups. It can include differences in things like wages, salaries, property ownership, and access to credit. For example, in India, there is a significant gap between the rich and the poor, with the top 1% owning a significant amount of the country's wealth.

### Methods and indicators used to measure inequality

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#### Quintile Ratio

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Quintile ratio is a measure of inequality that compares the income or wealth of the top 20% of a population with the income or wealth of the bottom 20%. It is a commonly used measure of inequality because it is easy to calculate and provides a simple way to understand how income or wealth is distributed in a society.

**Quintile Ratio = Income or wealth of the top 20% / Income or wealth of the bottom 20%**

#### Palma Ratio

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The Palma ratio is an economic measure of income inequality that compares the income of the top 10% of the population with the income of the bottom 40%. It is named after the Chilean economist Gabriel Palma who first proposed the measure.

**Palma ratio = (income share of top 10%) / (income share of bottom 40%)**

For example, suppose that in a country, the top 10% of the population earns 30% of the total income, while the bottom 40% earns 10% of the total income. The Palma ratio for this country would be:

$$\text{Palma ratio} = 30\% / 10\% = 3$$

The Palma ratio is often used as a measure of income inequality in developing countries where the middle class is relatively small and the top and bottom income groups are more pronounced. In such countries, the Palma ratio can provide a more accurate picture of inequality than measures that focus on the middle-income groups, such as the Gini coefficient.

Like Quintile Ratio, Palma ratio is useful because it is simple to calculate and easy to interpret. However, it does have its limitations. For instance, the Palma ratio only considers the income of the top and bottom groups, and ignores the distribution of income within each group. In addition, it may not capture other dimensions of inequality, such as inequality in access to education, health care, or other resources.

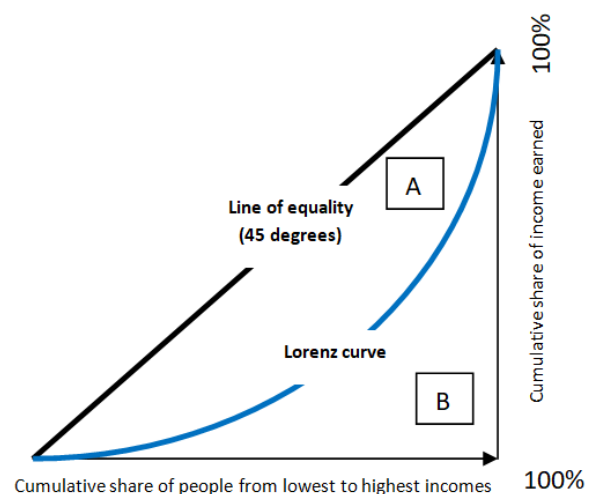
Despite these limitations, the Quintile Ratio and Palma ratio are valuable tools for policymakers and researchers to understand the nature and extent of income inequality in a society.

## Lorenz Curve and Gini Coefficient

The Lorenz curve is a graphical representation of income distribution in a population. It shows how the total income in a society is distributed among its members, and how this distribution compares to perfect equality.

If the income distribution in this country were perfectly equal, then the Lorenz curve would be a straight line at a 45-degree angle. This would mean that each percentile of the population would earn an equal share of the total income. However, in reality, income is rarely distributed equally, and the Lorenz curve will deviate from this line.

The degree of deviation from the line of perfect equality indicates the level of income inequality in the population. The greater the deviation, the greater the inequality.



## Gini coefficient

We can measure the degree of inequality using the Gini coefficient, which is a numerical measure that ranges from 0 to 1.

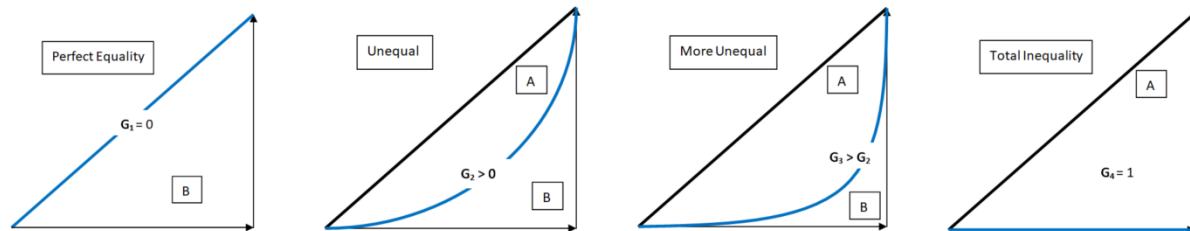
The formula for the Gini coefficient is:

$$G = (A / (A + B))$$

Where:

- G is the Gini coefficient
- A is the area between the Lorenz curve and the line of perfect equality
- B is the area under the Lorenz curve

A Gini coefficient of 0 indicates perfect equality (i.e., everyone earns the same income), while a Gini coefficient of 1 indicates perfect inequality (i.e., one person earns all the income and everyone else earns nothing).



The Lorenz curve is a useful tool for policymakers and researchers because it provides a visual representation of income distribution that can help identify the groups that are most affected by income inequality. For example, if the Lorenz curve is skewed towards the bottom of the graph, it indicates that a large portion of the population is earning very little income. This information can be used to design policies that target these groups and help reduce inequality.

### Reasons for inequality in India

1. **Historical Factors:** India's colonial past and the caste system have had a significant impact on economic inequality. The caste system, which classifies people into social groups based on their birth, has created unequal access to education, job opportunities, and social services for lower castes, leading to economic disparities.
2. **Unequal Distribution of Resources:** In India, there is a significant gap between the rich and poor in terms of access to basic resources such as healthcare, education, and sanitation. This lack of access to resources can lead to limited opportunities and prevent individuals from breaking out of the cycle of poverty.
3. **Labor Market Discrimination:** Discrimination based on gender, religion, and caste is prevalent in India's labor market. For instance, women tend to earn less than men, and certain castes have limited access to high-paying jobs. This can create a significant wage gap and contribute to economic inequality.
4. **Unequal Distribution of Land:** In India, land ownership is concentrated in the hands of a few, leading to unequal access to agricultural resources and limited opportunities for small farmers. This can contribute to poverty and economic inequality.

### How to combat inequality

1. **Promote education and skill development-** By investing in education and training programs, individuals can acquire skills that can help them secure better-paying jobs, which can increase their income and reduce the income gap.
2. **Progressive taxation policies** - It means that individuals who earn more will pay a higher percentage of their income in taxes. The revenue generated from these taxes can be used to fund social welfare programs such as healthcare, education, and infrastructure, which can benefit those who are less fortunate and reduce economic inequality.
3. **The government can provide subsidies and incentives** to businesses that hire individuals from marginalized communities, such as women, minorities, and people with disabilities. By providing

equal opportunities to these groups, the government can promote economic inclusion and reduce inequality.

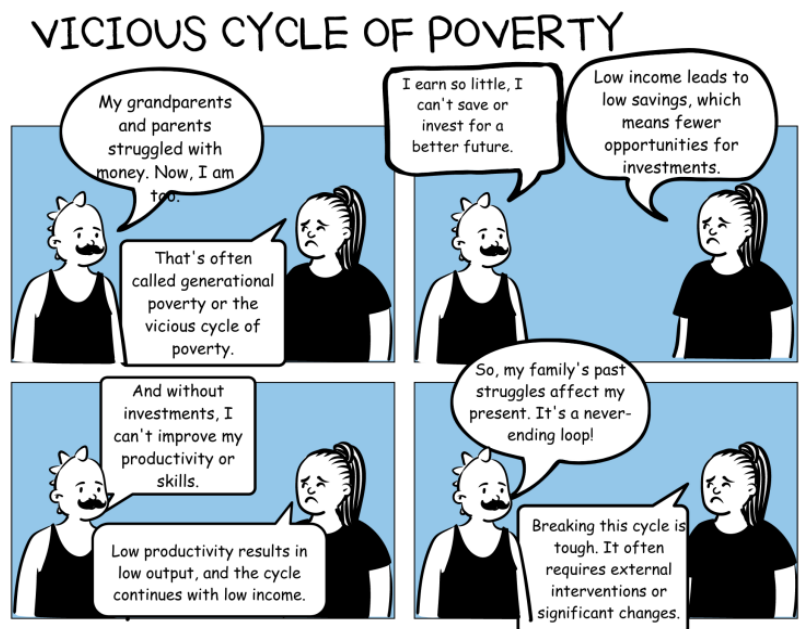
4. **Implementing effective social safety net programs** can also help combat economic inequality. Programs such as food subsidies, healthcare benefits, and housing assistance can provide a safety net for those who are struggling financially, and help them meet their basic needs.

## Poverty

Poverty is a term used to describe a situation where a person or group of people do not have enough resources to meet their basic needs and have a standard of living that is considered acceptable within their society.

### Types of Poverty

1. **Absolute poverty:** Absolute poverty is when someone lacks the basic necessities of life, such as food, shelter, and clothing. In other words, it's a situation where a person cannot meet their basic needs for survival. For example, a family that lives on the streets without access to proper nutrition, healthcare, and sanitation facilities is experiencing absolute poverty.
2. **Relative poverty:** Relative poverty is when someone has less income or resources than the average person in their society. In other words, it's a situation where a person's standard of living is significantly lower than the average standard of living in their community. For example, a family that lives in a small, cramped apartment and struggles to make ends meet despite working full-time jobs may be experiencing relative poverty.
3. **Urban poverty:** Urban poverty refers to poverty that is concentrated in urban areas, often characterized by inadequate housing, poor sanitation, and limited access to basic services such as healthcare and education. For example, people living in slums or informal settlements in cities are often considered to be experiencing urban poverty.
4. **Rural poverty:** Rural poverty is poverty that is concentrated in rural areas, where people often have limited access to basic services, including healthcare, education, and transportation. For example, farmers who are unable to afford modern farming techniques and equipment and are forced to work on small plots of land may be experiencing rural poverty.
5. **Intergenerational poverty:** Intergenerational poverty occurs when poverty is passed down from one generation to the next. For example, a child born into a family that has been living in poverty for generations is more likely to experience poverty than a child born into a more affluent family.



6. **Situational poverty:** Situational poverty is a temporary form of poverty that arises due to specific life events such as job loss, illness, or a natural disaster. For example, a person who loses their job and is unable to find another one immediately may experience situational poverty until they are able to secure employment again.

### Committees on Poverty

Committee		Lakdawala Committee	Tendulkar Committee	Rangarajan Committee
Year		1993	2009	2015
Estimation	Rural Areas	2400 Kcal	Rs 27	Rs 32
	Urban Areas	2100 Kcal	Rs 33	Rs 47
Items considered		Food items	Food + Non-food items	Food + Non-food Items
Reference period		Uniform Recall period - expenditure on list items after every 30 days	Mixed recall period - 30 days for all items + 365 days for 5 categories of non-food items (durable goods, clothing, footwear, institutional medical expenses, educational expenses)	Modified mixed recall period - 30 days, 365 days (5 categories), 7 days - frequently consumed goods - milk, eggs, etc.

### National Multidimensional Poverty Index (MPI)

The National Multidimensional Poverty Index (MPI) is an important measure developed to provide a comprehensive understanding of poverty in India. It goes beyond income-based measures and considers multiple deprivations that individuals or households face across different dimensions. The MPI aims to address the Sustainable Development Goal (SDG) target 1.2, which seeks to reduce poverty in all its forms by at least half by 2030.

The MPI used by the United Nations Development Programme (UNDP) and the Oxford Poverty and Human Development Initiative (OPHI) captures deprivations in health, education, and living standards. It not only tells us how many are poor, that is the headcount ratio, but also gives us insights into how poor are the poor, that is the intensity of poverty, by following a holistic approach to poverty measurement.

The NITI Aayog has adapted the global MPI to the Indian context, adding two indicators—maternal health and bank accounts—to align with national priorities.

#### Methodology

The National MPI follows the Alkire-Foster (AF) methodology, which is a dual-cutoff counting method:

1. First Cutoff: Determines whether an individual is deprived in each indicator.
2. Second Cutoff: Aggregates deprivations to identify multidimensionally poor individuals.

## Indicators and Dimensions

The National MPI includes 12 indicators across three dimensions: health, education, and standard of living. Each dimension is equally weighted:

Dimension	Indicator	Weight
Health	1. Nutrition	1/6
	2. Child and Adolescent Mortality	1/12
	3. Maternal Health	1/12
Education	4. Years of Schooling	1/6
	5. School Attendance	1/6
Standard of Living	6. Cooking Fuel	1/21
	7. Sanitation	1/21
	8. Drinking Water	1/21
	9. Housing	1/21
	10. Electricity	1/21
	11. Assets	1/21
	12. Bank Account	1/21

### Computing the MPI:

- Building a deprivation profile for each household** - Each household is assigned a deprivation score based on its deprivation in each of the 12 indicators.
- Identifying the poor** - If the deprivation score of a household is above 33%, they are multidimensionally poor.
- Indices of MPI:**
  - Headcount ratio (H): How many are poor?**  
Proportion of multidimensionally poor in the population, which is arrived at by dividing number of multidimensionally poor persons by total population.
  - Intensity of poverty (A): How poor are the poor?**  
Average proportion of deprivations which is experienced by multidimensionally poor individuals. To compute intensity, the weighted deprivation scores of all poor people are summed and then divided by the total number of poor people.

MPI is arrived at by multiplying headcount ratio (H) and intensity of poverty (A).

$$\text{MPI} = H \times A$$

The National MPI serves as a vital policy tool for:

- Targeted Interventions: Identifying specific areas of deprivation to design targeted policies.
- Monitoring and Evaluation: Tracking progress and evaluating the effectiveness of poverty alleviation programs.
- Data-Driven Decision Making: Facilitating evidence-based policymaking at national, state, and district levels.

## Additional Terms and Concepts

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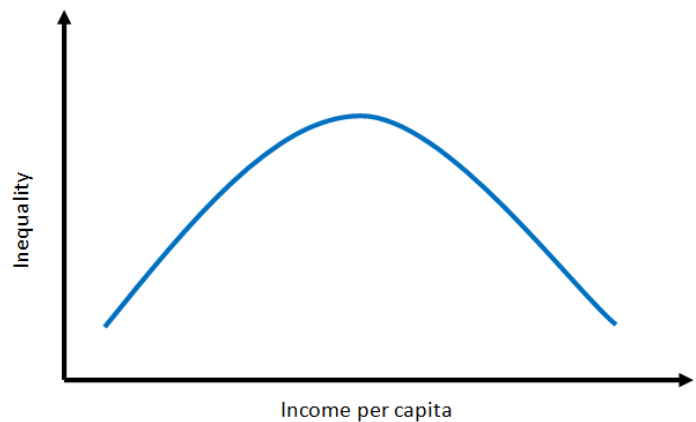
### *Kuznets Curve*

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The Kuznets Curve is a hypothesis that suggests as an economy develops, income inequality first increases and then decreases. It is typically represented as an inverted U-shaped curve, showing the relationship between economic growth and income inequality.

Example: In the early stages of industrialization, a country might experience increasing income inequality as new industries create wealth for business owners while workers' wages lag behind.

As the country continues to develop, more people gain access to education and better job opportunities, leading to a reduction in income inequality. This results in the inverted U-shaped Kuznets Curve, where inequality rises in the initial stages of development and falls in the later stages.



### *Poverty Trap*

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A poverty trap is a situation where individuals or communities are unable to escape poverty due to a combination of factors that reinforce each other, making it difficult to achieve economic improvement. It is a self-perpetuating cycle of poverty.

Example: Imagine a rural village where most people are farmers with very low incomes. They cannot afford to invest in better farming equipment or education for their children. Due to poor education, the next generation also ends up with low-paying jobs, continuing the cycle of poverty. Without external help or significant changes, these villagers remain stuck in a poverty trap, unable to break free from their economic conditions.

### *Structural Poverty*

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Structural poverty refers to a situation where poverty is embedded in the very structure of an economy or society. This type of poverty is not due to individual failings but is a result of systemic issues like unequal distribution of resources, lack of access to education, and discrimination.

Example: Consider a region where the education system is severely underfunded, and there are few job opportunities outside of low-paying, unstable work. People in this region might struggle to break out of poverty because the system itself does not provide the necessary resources for upward mobility. For instance, even if individuals work hard, they may not have access to quality education or well-paying jobs, trapping them in a cycle of poverty. This persistent and widespread poverty due to systemic issues is called structural poverty.

## Previous Years Prelims Questions

1.	In a given year in India, official poverty lines are higher in some states than in others because  (a) poverty rates vary from State to State  (b) price levels vary from State to State  (c) Gross State Product varies from State to State  (d) quality of public distribution varies from State to State	2019
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### Answers

1.	B		
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# CHAPTER 6

MONEY



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# Chapter 6

## Money

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Money is a fundamental concept in economics that plays a crucial role in our daily lives. Without money, it would be difficult to conduct economic activity, and many of the goods and services we rely on would be inaccessible. Understanding the role and functions of money is essential to understanding the broader workings of the economy.

### Evolution of Money

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The concept of money has been around for thousands of years, and it has evolved over time. In its simplest form, money is any item that is widely accepted in exchange for goods or services.

1. **Barter System:** The barter system was the earliest form of trade, where goods and services were exchanged directly for other goods and services without the use of any medium of exchange or money. For example, a farmer would exchange their wheat for a blacksmith's tools or services.
2. **Commodity Money:** As trade became more complex, people started using commodity money. This was a form of money where valuable commodities such as gold, silver, or salt were used as a medium of exchange. The value of these commodities was widely recognized, and they were traded in exchange for goods and services.
3. **Coinage:** In ancient times, coins were introduced to make trading more efficient. Coins were made of precious metals and had a standardized weight and size. Coins became popular because they were portable, easy to count, and store. For example, the Roman Empire introduced the denarius coin.
4. **Paper Money:** Paper money was first used in China during the Tang Dynasty (7th Century). The Chinese used paper money to make large purchases such as land or buildings. Paper money gradually became popular as it was easier to carry around and use for transactions.
5. **Digital Money:** With the advent of the internet and digital technology, digital money has become increasingly popular. Digital money can be used to make online purchases, transfer money between accounts, and even pay for goods and services in physical stores using mobile devices. Examples of digital money include credit and debit cards, UPI or cryptocurrencies such as Bitcoin and Ethereum.

### Functions of Money

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1. **Medium of exchange:** One of the primary functions of money is to serve as a medium of exchange. In other words, money allows us to buy and sell goods and services without having to engage in barter.

For example, imagine you want to buy a new smartphone. If you had to engage in barter, you would have to find someone who wanted to trade their smartphone for something you had to offer, such as a bicycle or a book. But with money, you can simply pay for the smartphone with cash or a digital payment, making the transaction much easier and more efficient.

2. **Unit of account:** Money also serves as a unit of account, which means it is used as a standard measure of value for goods and services.

For example, if you go to a grocery store and see that a carton of eggs costs ₹50, you know that the price is being expressed in terms of money. Money allows us to compare the value of different goods and services and make informed choices about how to allocate our resources.

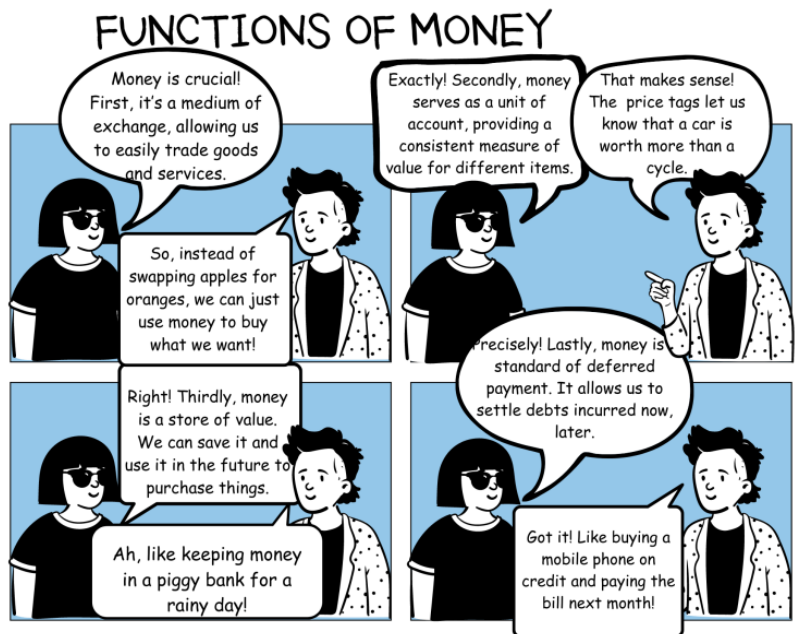
3. **Store of value:** Money also serves as a store of value, which means it can be held and used as a way to store purchasing power over time.

For example, if you receive a paycheck for your work, you can use that money to buy things immediately or you can save it for later. By saving money, you are storing the value of your labor for future use. This function of money allows us to plan for the future, invest in long-term goals, and build wealth over time.

4. **Standard of deferred payment:** Money also serves as a standard of deferred payment, which means it can be used to pay debts or obligations that are incurred in the present but will be paid in the future.

For example, if you take out a loan to buy a car, you are incurring a debt that you will have to pay off over time. Money serves as a standard of deferred payment because it allows you to make those future payments using a stable and widely accepted medium of exchange.

These functions are all critical to the functioning of a modern economy, and they enable us to engage in complex economic transactions and planning with ease and efficiency.



## Types of Money

Type of Money	Description	Examples
<b>Full-bodied money</b>	Currency that has intrinsic value and is made of a precious metal like gold or silver	Gold coins, silver coins
<b>Token money</b>	Currency that has little or no intrinsic value and is used as a substitute for full-bodied money	Coins made of base metals like copper and nickel, Paper Money
<b>Representative full-bodied money</b>	Currency that represents a claim on a physical commodity or other asset, such as gold or silver, which is held by the issuing authority	Gold certificates, silver certificates

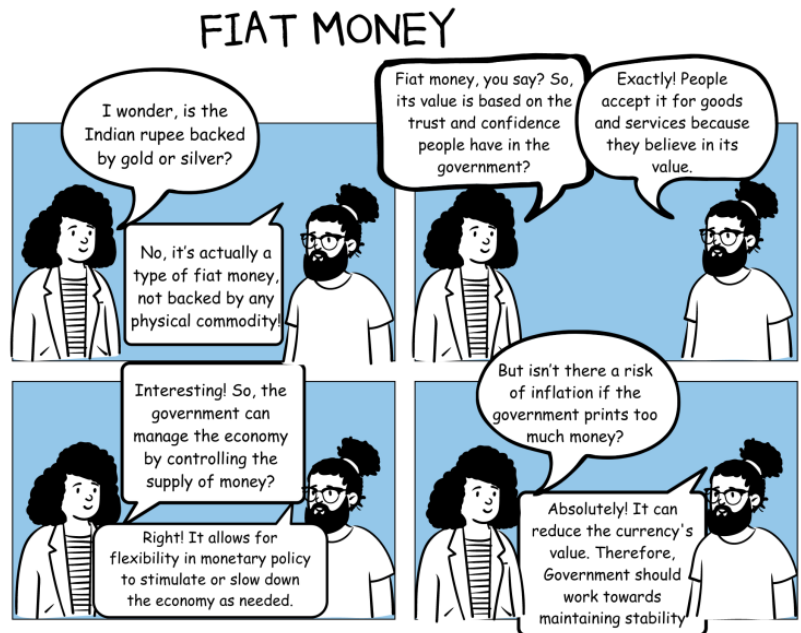
## Fiat Money

Fiat money is a type of currency that is not backed by a physical commodity like gold or silver, but is instead based on the faith and credit of the government that issues it.

In other words, the value of fiat money comes from the fact that people believe it has value and are willing to accept it in exchange for goods and services. This is in contrast to commodity money, which has value because it is made of a valuable commodity like gold or silver.

An example of fiat money is the currency used in India, the Indian rupee. The value of the Indian rupee is determined by a number of factors, including the strength of the Indian economy, the government's monetary policies, and the demand for the rupee in international markets. As long as people have confidence in the Indian government and its ability to manage the economy, the value of the rupee will remain relatively stable.

One advantage of fiat money is that it allows for greater flexibility in monetary policy. Since the government can control the supply of money, it can use monetary policy tools like interest rates and money supply to stimulate or slow down the economy as needed. However, there is also a risk of inflation if the government prints too much money, which can reduce the value of the currency and hurt the purchasing power of individuals.

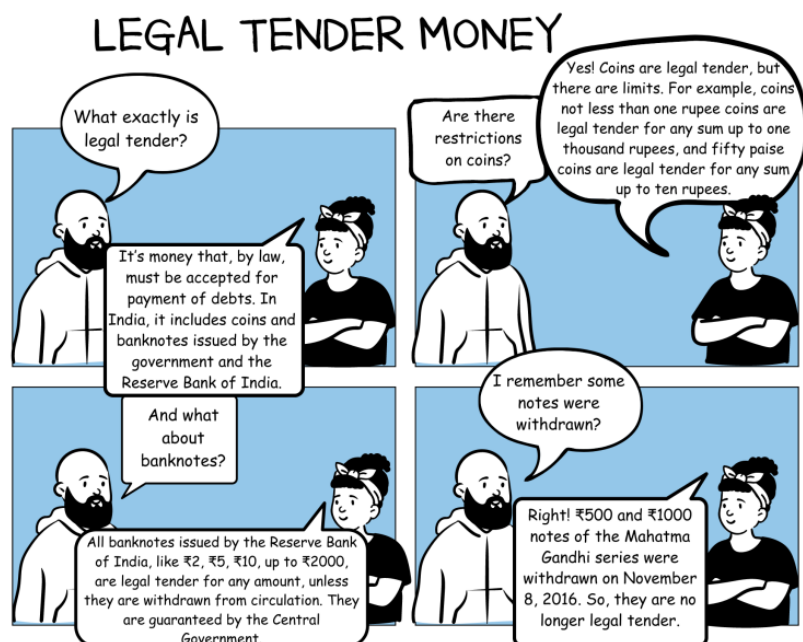


## Legal Tender Money

Legal tender refers to any form of money that is recognized by law as a valid means of payment for debts and taxes. In other words, if you owe someone money or taxes, they must accept legal tender money as payment.

For example, in India, legal tender money includes the Indian rupee notes and coins issued by the Reserve Bank of India. If you owe someone money and offer to pay with legal tender money, they cannot refuse to accept it.

Legal tender laws are important because they help to



ensure that there is a standard form of payment that everyone can use and accept. Without legal tender laws, it would be difficult to conduct business transactions or pay taxes, as people could refuse to accept certain forms of payment.

## Non-legal Tender Money

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Non-legal tender money is any type of currency or payment method that is not recognized as official legal tender by a government.

Examples of non-legal tender money can include things like gift cards, loyalty points, and virtual currencies like Bitcoin. While these forms of payment may be accepted by some businesses or individuals, they are not officially recognized as legal tender by the government and cannot be used to pay taxes or other government debts.

One advantage of non-legal tender money is that it can offer greater flexibility and innovation in the payment system. For example, gift cards and loyalty points can be a convenient way for businesses to incentivize customers and encourage repeat business. Virtual currencies like Bitcoin can also offer greater privacy and security in transactions, since they are not tied to traditional banking systems.

However, there are also some risks associated with non-legal tender money. Since they are not recognized as legal tender, they may be subject to greater price volatility or fraud. In addition, if a business or platform that accepts non-legal tender money goes bankrupt or shuts down, customers may be left with little recourse to recover their funds.

## Bank Money

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Bank money refers to the money that exists in bank accounts, such as current and savings accounts. This money is created by banks when they make loans to individuals and businesses, and it is backed by the assets that the banks hold.

When someone takes out a loan from a bank, the bank creates new money by adding the loan amount to the borrower's account. This money is then available for the borrower to spend or transfer to others. Similarly, when someone deposits money into a bank account, the bank is able to lend out a portion of that money to other borrowers, creating more bank money in the process.

An example of bank money can be seen in a simple scenario where a person takes out a loan from a bank to buy a car. Let's say the loan amount is Rs. 1,00,000. When the bank approves the loan, it adds Rs. 1,00,000 to the person's bank account. This money is now available for the person to use to buy the car. The bank, in turn, has created Rs. 1,00,000 of new bank money.

Another example can be seen when a business deposits Rs. 50,000 in a savings account. The bank can use a portion of that deposit to make a loan to another business, creating more bank money in the process.

Bank money is an important part of the modern economy, as it allows for the creation of credit and the financing of economic activity. However, it is also important to ensure that banks are properly regulated and have sufficient reserves to back the bank money they create, in order to maintain the stability of the financial system.

## Near Money

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Near money, also known as quasi-money or quasi-liquid assets, refers to financial assets that can be easily converted into cash, but are not themselves considered to be actual money. These assets are typically short-term, low-risk investments that can be quickly sold or converted into cash.



Examples of near money include savings accounts, money market accounts, and short-term government securities. While these assets are not considered to be actual money, they are still highly liquid and can be easily converted into cash in the short-term.

One way to think about near money is to compare it to cash. Cash is the most liquid form of money, since it can be immediately used to purchase goods and services. Near money, on the other hand, is slightly less liquid, since it may take some time to sell or convert these assets into cash.

An example of how near money can be used is in emergency savings. If an individual wants to have some money set aside in case of an emergency, they might choose to put their savings in a money market account, which is considered a near money asset. While the money is not immediately available in the form of cash, it can be quickly accessed if needed and is earning some interest in the meantime.

Another example of near money is short-term government securities. These are bonds or other debt securities issued by the government that have a short maturity, typically less than a year. While they are not actual money, these securities are highly liquid and can be quickly sold if needed. In fact, they are often used as a tool by the government to manage the money supply and influence interest rates.

## Cryptocurrency

Cryptocurrency is a digital or virtual form of currency that uses cryptography for secure transactions, control the creation of new units, and verify the transfer of assets. Unlike traditional currencies issued by governments, cryptocurrencies are decentralized and operate on a technology called blockchain.

### Key aspects of cryptocurrencies

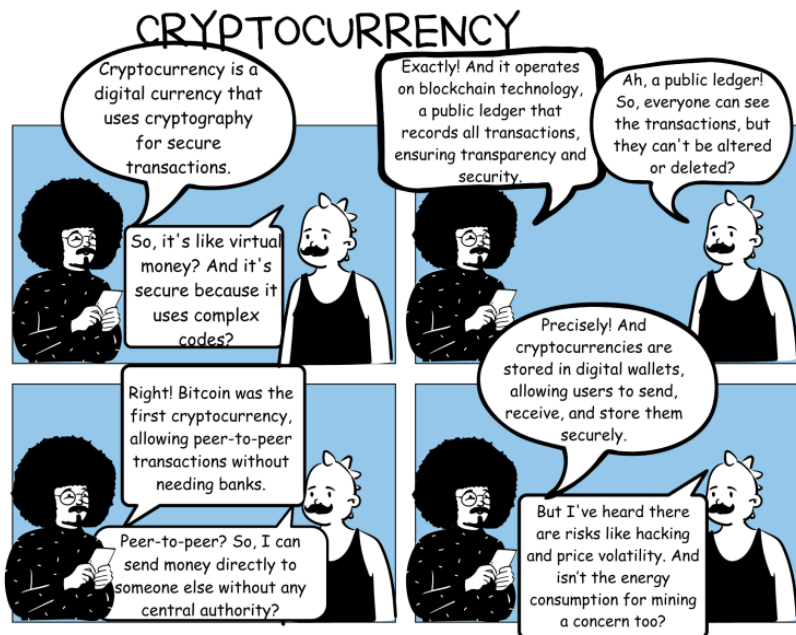
#### 1. Decentralization:

Cryptocurrencies are not controlled by any central authority, such as a government or bank. Instead, they rely on a decentralized

network of computers called nodes that maintain the blockchain. This decentralized nature ensures that no single entity has complete control over the currency.

2. **Blockchain Technology:** Cryptocurrencies utilize blockchain, a public ledger that records all transactions. The blockchain consists of a series of blocks, where each block contains a set of transactions. Each transaction is encrypted and linked to the previous transaction, creating a chain of blocks. This technology ensures transparency, security, and immutability of the transaction history.

3. **Bitcoin (BTC)** was the first decentralized cryptocurrency introduced in 2009. Bitcoin operates on a peer-to-peer network and allows users to send and receive payments without the need for intermediaries, such as banks.



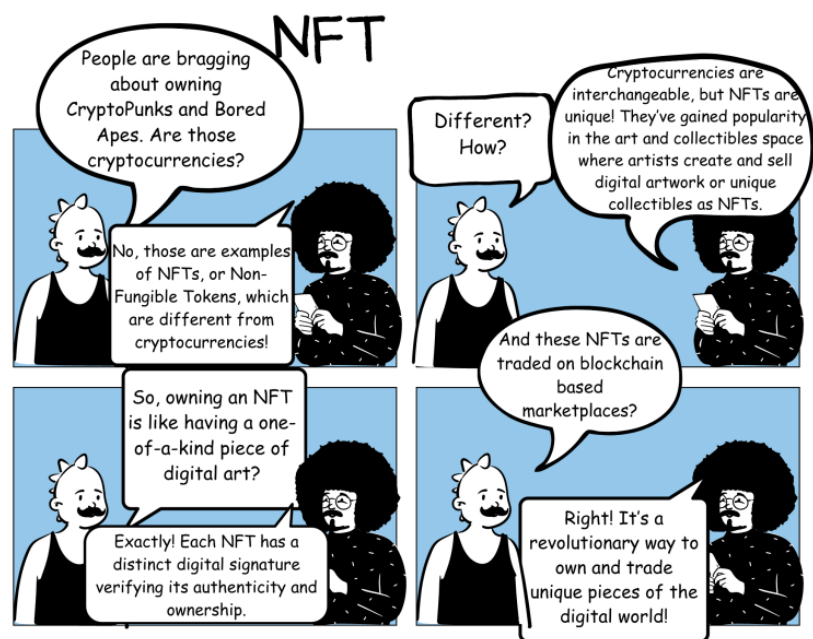
4. **Mining and Verification:** Cryptocurrencies like Bitcoin use a process called mining to validate and verify transactions. Miners use powerful computers to solve complex mathematical problems, and when they solve these problems, new blocks are added to the blockchain, and miners are rewarded with new coins as an incentive for their computational work.
5. **Digital Wallets:** Cryptocurrencies are stored in digital wallets, which are software applications that allow users to securely store, send, and receive cryptocurrencies. These wallets provide users with unique addresses that can be used to send or receive funds.

It's important to note that while cryptocurrencies offer certain advantages such as decentralization, security, and fast transactions, they also come with risks. These risks include regulatory uncertainties, hacking incidents, potential price volatility and environmental concerns related to energy consumption in cryptocurrency mining.

## NFT (Non-Fungible Token)

NFT refers to a unique digital asset that represents ownership or proof of authenticity of a specific item or piece of content. Unlike cryptocurrencies, which are fungible (interchangeable), NFTs are one-of-a-kind and cannot be exchanged on a one-to-one basis.

NFTs have gained popularity in the art and collectibles space. Artists can create and sell digital artwork or unique collectibles as NFTs. Each NFT has a distinct digital signature, verifying its authenticity and ownership. NFTs are typically bought, sold, and traded on blockchain-based marketplaces.



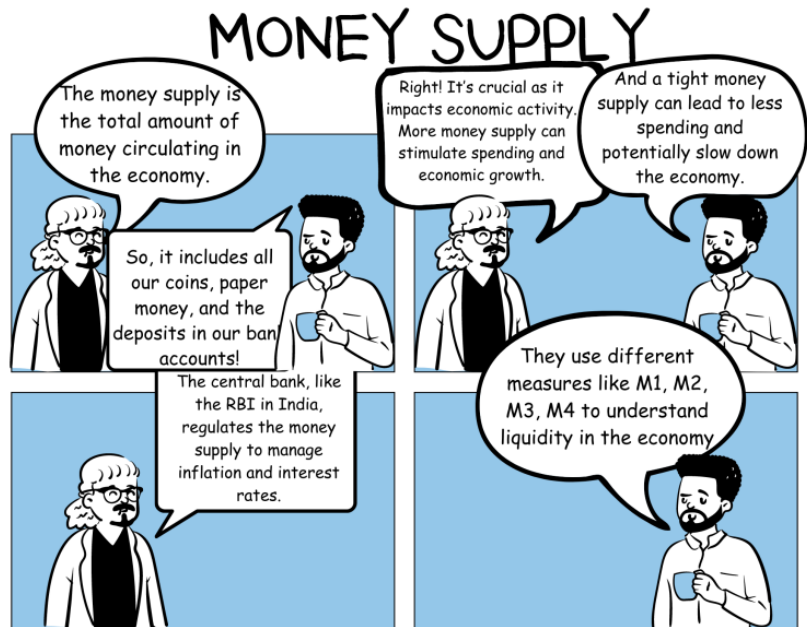
## Money Supply

The money supply refers to the total amount of money that is circulating in the economy at any given time. This includes all the physical currency in circulation, such as coins and paper money, as well as deposits held in bank accounts.

The money supply is important because it affects the level of economic activity in the economy. When there is more money in circulation, people tend to spend more, which can stimulate economic growth. On the other hand, when the money supply is tight, people may be less willing to spend and economic growth may slow down.

One way that the money supply can change is through the actions of the central bank. For example, if the central bank wants to stimulate economic growth, it may choose to increase the money supply by buying government bonds or lowering interest rates. This makes it easier for banks to lend money to businesses and individuals, which can help boost economic activity.

Conversely, if the central bank wants to slow down economic growth and control inflation, it may choose to decrease the money supply by selling government bonds or raising interest rates. This makes it more expensive for banks to lend money, which can discourage borrowing and spending.

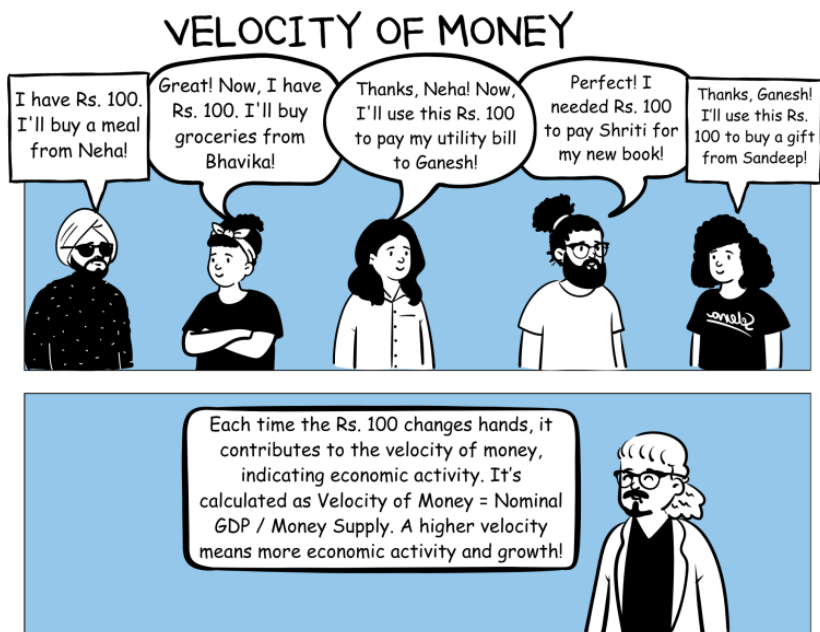


## Velocity of Money Circulation

The velocity of money circulation, also known as velocity of money, refers to the speed at which money moves through the economy. In other words, it measures how many times a unit of currency is spent within a certain period of time.

For example, imagine you have Rs. 100 in your pocket and you use it to buy a meal from a local restaurant. The restaurant owner then uses that Rs. 100 to buy groceries from a nearby store. The store owner then uses that Rs. 100 to pay for utility bills, and so on. Each time the Rs. 100 changes hands, it contributes to the velocity of money circulation.

The velocity of money is important because it helps to determine the level of economic activity in an economy. When money is changing hands quickly, it suggests that there is a lot of economic activity taking place



and people are spending money. Conversely, when money is changing hands slowly, it suggests that there is less economic activity and people are holding onto their money.

One way to calculate the velocity of money is by using the following formula:

**Velocity of Money = Nominal Gross Domestic Product (GDP) / Money Supply**

This formula takes into account the total value of goods and services produced in the economy (GDP) and the amount of money in circulation. A higher velocity of money suggests that the same amount of money is being used to buy more goods and services, which can help to stimulate economic growth.

## Deposits

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**Time Deposits** Time deposits are a type of deposit where money is deposited with a bank or financial institution for a fixed period, ranging from a few months to several years. The money cannot be withdrawn before the maturity date without paying a penalty.

**Demand Deposits** Demand deposits are deposits that can be withdrawn by the depositor at any time without any prior notice. The interest rate offered on demand deposits is usually lower than that offered on time deposits.

## Net Demand & Time Liability (NDTL)

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Demand Liabilities are the liabilities of the bank that are payable on demand. Such as Current Account, Savings Account, and Demand Draft.

Time Liabilities, on the other hand, are the liabilities of the bank that are payable after a certain period of time. Examples of time liabilities include Fixed Deposits and Recurring Deposits.

Net Demand and Time Liabilities (NDTL) is the sum total of the demand and time liabilities of a bank that are held by the public.

## Measure of Money Supply

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In India, there are four main measures of money supply that are tracked by the Reserve Bank of India (RBI). These measures are known as M1, M2, M3, and M4. Let's take a closer look at each one:

**M1:** This is the narrowest measure of money supply in India, and it includes only the most liquid forms of money.

M1 = currency in circulation + demand deposits held by commercial banks

**M2:** This is a broader measure of money supply that includes all the components of M1, as well as some less liquid forms of money.

$M2 = M1 + \text{savings deposits with Post Office.}$

**M3:** This is an even broader measure of money supply that includes all the components of M1, as well as some other types of deposits.

$M3 = M1 + \text{Net time deposits of commercial banks.}$

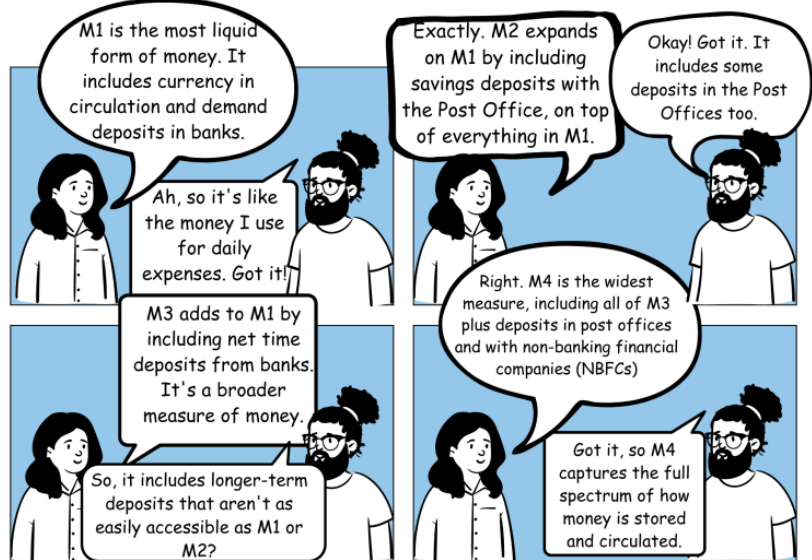
**M4:** This is the broadest measure of money supply in India, and it includes all the components of M3, as well as some other financial assets. In addition to currency in circulation, demand deposits, savings deposits, and time deposits, M4 also includes all

post office deposits and all deposits with non-banking financial companies (NBFCs). In equation form,

$M4 = M3 + \text{all post office deposits} + \text{all deposits with NBFCs.}$

These measures of money supply are important for the RBI and other policymakers to track, as they can indicate changes in the overall money supply in the economy and help inform decisions about monetary policy.

## MEASURES OF MONEY SUPPLY



### Reserve Money (also known as High-Powered Money or Primary Money)

Reserve money, also known as base money or high-powered money, refers to the total amount of currency and reserves held by the central bank of a country.

In India, the central bank is the Reserve Bank of India (RBI), and it holds reserves of various types of money, including cash reserves held by commercial banks, deposits held by commercial banks at the RBI, and other types of reserves. These reserves are used by the RBI to implement monetary policy, regulate the banking system, and maintain financial stability.

The formula for reserve money is:

**Reserve Money = Currency in Circulation + Bankers' Deposits with RBI + Other Deposits with RBI + RBI's Other Liabilities**

where:

- Currency in Circulation refers to the total amount of physical currency (coins and banknotes) circulating in the economy. This includes both the currency held by the public and by commercial banks.
- Bankers' Deposits with RBI refers to the deposits made by commercial banks with the RBI, which serve as a reserve requirement for the banks.

- Other Deposits with RBI includes deposits made by the government, state governments, and other entities with the RBI.
- RBI's Other Liabilities includes other types of liabilities held by the RBI, such as deposits held by foreign central banks and international organizations.

An example of how reserve money works is as follows:

Suppose the RBI wants to increase the money supply in the economy. It can do this by purchasing government securities from commercial banks, which increases the amount of reserves held by the banks. This in turn increases the amount of deposits the banks can make with the RBI, which increases the reserve money in the economy.

For example, if the RBI purchases government securities worth Rs. 1,000 crore from commercial banks, the banks will have an additional Rs. 1,000 crore in reserves. They can then deposit this money with the RBI, which increases the RBI's liabilities and thus the reserve money in the economy.

Overall, reserve money is an important concept in economics and monetary policy, as it plays a key role in determining the money supply and regulating the banking system.

## Credit Creation

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Credit creation is the process by which banks generate new loans, effectively increasing the money supply in the economy. When banks lend money, they create deposits, which increases the total amount of money available for spending and investment.

Example: You deposit ₹10,000 in your bank account. The bank keeps a fraction of this deposit (say ₹1,000) as a reserve and lends out the remaining ₹9,000 to someone who wants to buy a car. The borrower then spends this money, and it gets deposited in another bank. This bank can now lend out a portion of this new deposit, and the process continues. Through multiple rounds of lending and depositing, the initial ₹10,000 can lead to a much larger increase in the total money supply, known as credit creation.

## Money Multiplier

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The Money Multiplier measures the amount of money that the banking system can create through the process of credit creation. It is defined as the ratio of the money supply to the Reserve Money, which is the base level of money supply in the economy.

$$\text{Money Multiplier (m)} = \text{Money Supply} / \text{Reserve Money}$$

The Money Multiplier measures the speed at which credit is being created in the economy. When the Reserve Bank of India (RBI) injects money into the banking system, commercial banks use a portion of that money to make loans to households and firms. This process of credit creation increases the money supply in the economy.

The Money Multiplier indicates the potential increase in the money supply that can result from an increase in the Reserve Money. For example, if the Reserve Money increases by Rs. 1000 crore and the Money Multiplier is 2, then the money supply can potentially increase by Rs. 2000 crore (i.e., 1000 x 2).



The credit creation process can lead to an increase in the Money Supply, and this can result in inflationary pressures in the economy if it is not matched by an increase in the production of goods and services. Therefore, the RBI closely monitors the credit creation process and uses monetary policy tools to regulate the money supply in the economy and maintain price stability.

## Additional Terms and Concepts

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### *Seigniorage*

Seigniorage is the profit made by a government when it issues new currency. It is the difference between the face value of the money and the cost to produce and distribute it.

Example: Imagine it costs the Government of India ₹1 to produce a ₹100 note. The seigniorage is the difference between the value of the note (₹100) and the cost to produce it (₹1), which is ₹99.

### *Central Bank Digital Currency (CBDC)*

Central Bank Digital Currency (CBDC) is a digital form of a country's official currency, issued and regulated by the central bank. It represents a digital form of fiat currency that a central bank issues and backs.

#### Key Characteristics of CBDC:

- **Legal Tender:** CBDCs are legal tender, meaning they are recognized by law for the payment of debts and obligations.
- **Digital Nature:** Unlike physical cash, CBDCs exist only in digital form and can be stored in digital wallets.
- **Central Bank Issued:** CBDCs are issued directly by the central bank, making them different from commercial bank money or cryptocurrencies.
- **Traceability:** Transactions using CBDC can be easily traced, which can help in reducing illegal activities like money laundering and tax evasion.

Reserve Bank of India (RBI) has introduced a digital version of the Indian Rupee called the Digital Rupee (e₹). This digital currency can be used for all types of transactions, just like physical cash or digital payments through bank accounts or mobile wallets.

### *Gresham's Law*

Gresham's Law states that "bad money drives out good money." When two forms of money with the same face value but different intrinsic values are in circulation, people tend to hoard the more valuable money (good money) and spend the less valuable one (bad money).

Example: Suppose there are two types of coins in circulation: one made of gold (good money) and another made of a cheaper metal like copper (bad money). Both coins have the same face value. People will hoard the gold coins because they are intrinsically more valuable and use the copper coins for transactions, leading to gold coins disappearing from circulation.

A modern example is the use of cryptocurrency and fiat money. In some countries with unstable economies and high inflation, people may prefer to hold onto cryptocurrencies like Bitcoin (good money) and spend the local currency (bad money). This behavior is similar to Gresham's Law, where the more stable and valuable currency is hoarded while the less stable one is used for transactions.



## Previous Years Prelims Questions

1.	<p>With reference to Non-Fungible Tokens (NFTs), consider the following statements:</p> <ol style="list-style-type: none"> <li>1. They enable the digital representation of physical assets.</li> <li>2. They are unique cryptographic tokens that exist on a blockchain.</li> <li>3. They can be traded or exchanged at equivalency and therefore can be used as a medium of commercial transactions.</li> </ol> <p>Which of the statements given above are correct?</p> <ol style="list-style-type: none"> <li>(a) 1 and 2 only</li> <li>(b) 2 and 3 only</li> <li>(c) 1 and 3 only</li> <li>(d) 1, 2 and 3</li> </ol>	2022
2.	<p>The money multiplier in an economy increases with which one of the following?</p> <ol style="list-style-type: none"> <li>(a) Increase in the Cash Reserve Ratio in the banks.</li> <li>(b) Increase in the Statutory Liquidity Ratio in the banks</li> <li>(c) Increase in the banking habit of the people</li> <li>(d) Increase in the population of the country</li> </ol>	2021
3.	<p>If you withdraw 1,00,000 in cash from your Demand Deposit Account at your bank, the immediate effect on aggregate money supply in the economy will be</p> <ol style="list-style-type: none"> <li>(a) to reduce it by 1,00,000</li> <li>(b) to increase it by 1,00,000</li> <li>(c) to increase it by more than 1,00,000</li> <li>(d) to leave it unchanged</li> </ol>	2020
4.	<p>The money multiplier in an economy increases with which one of the following?</p> <ol style="list-style-type: none"> <li>(a) Increase in the cash reserve ratio</li> <li>(b) Increase in the banking habit of the population</li> <li>(c) Increase in the statutory liquidity ratio</li> <li>(d) Increase in the population of the country</li> </ol>	2019
5.	<p>Which one of the following statements correctly describes the meaning of legal tender money ?</p> <ol style="list-style-type: none"> <li>(a) The money which is tendered in courts of law to defray the fee of legal cases</li> <li>(b) The money which a creditor is under compulsion to accept in settlement of his claims</li> </ol>	2018

	(c) The bank money in the form of cheques, drafts, bills of exchange, etc. (d) The metallic money in circulation in a country	
6.	<p>With reference to 'Bitcoins', sometimes seen in the news, which of the following statements is/are correct?</p> <p>(1) Bitcoins are tracked by the Central Banks of the countries. (2) Anyone with a Bitcoin address can send and receive Bitcoins from anyone else with a Bitcoin address. (3) Online payments can be sent without either side knowing the identity of the other.</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 and 2 only (b) 2 and 3 only (c) 3 only (d) 1, 2 and 3</p>	2016
7.	<p>With reference to Central Bank digital currencies, consider the following statements:</p> <p>1. It is possible to make payments in a digital currency without using US dollar or SWIFT system. 2. A digital currency can be distributed with a condition programmed into it such as a time-frame for spending it.</p> <p>Which of the statements given above is/are correct?</p> <p>a) 1 only b) 2 only c) Both 1 and 2 d) Neither 1 nor 2</p>	2023

### Answers

1.	A	2.	C
3.	D	4.	B
5.	B	6.	B
7.	C		

# 7

**CHAPTER**

INFLATION 



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# Chapter 7

## Inflation

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Inflation is a sustained increase in the general price level of goods and services in an economy over a period of time. When inflation occurs, the purchasing power of money decreases, meaning that the same amount of money will buy fewer goods and services than before. When the rate of inflation is moderate, it can have some positive effects on the economy, but when it becomes too high, it can lead to several negative consequences.

### Types of Inflation

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There are different types of inflation, each characterized by the rate and speed of price increases. These include:

#### Creeping Inflation

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Creeping inflation is a situation where the general level of prices in an economy gradually and slowly rises over time generally upto 3% per year. This means that the cost of goods and services increases gradually over time, and the purchasing power of money decreases.

For example, imagine a pack of bread costs Rs 50 today, but in a year's time, it costs Rs 51 due to creeping inflation. This means that your money can buy less than it could a year ago.

Creeping inflation is considered good for the economy. There are a few reasons for this:

1. **Encourages spending:** When there is a little bit of inflation, people tend to spend more money as they anticipate that prices will continue to increase. This increased spending can help boost economic growth.
2. **Stimulates investment:** Creeping inflation can encourage businesses to invest and expand as they seek to take advantage of the increased demand for goods and services.
3. **Helps reduce debt:** If you have a fixed-rate loan, creeping inflation can help reduce the real value of the amount you owe over time, making it easier to pay back.

#### Trotting Inflation

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Trotting inflation generally means steady increase in prices, typically ranging from 3-10% annually. For example, let's say that in India, the price of a kilogram of rice increases from ₹50 to ₹55 over the course of a year. This would be an example of trotting inflation. While it may not seem like a huge increase, if it continues year after year, it can lead to significant price increases over time.

## Running Inflation

This type of inflation is faster than trotting inflation, with prices increasing at a rate of 10-20% per year. For example, let's say that the price of a kilogram of rice in India increases from ₹50 to ₹65 over the course of a year. This would be an example of running inflation. Prices are increasing at a faster rate, which can put a strain on people's budgets.

## Galloping Inflation

Galloping inflation is an even faster type of inflation, with prices increasing at a rate of 20-100% per year. For example, let's say that the price of a kilogram of rice in India increases from ₹50 to ₹150 over the course of a year. This would be an example of galloping inflation. Prices are increasing at a much faster rate, which can make it difficult for people to afford basic necessities.

## Hyperinflation

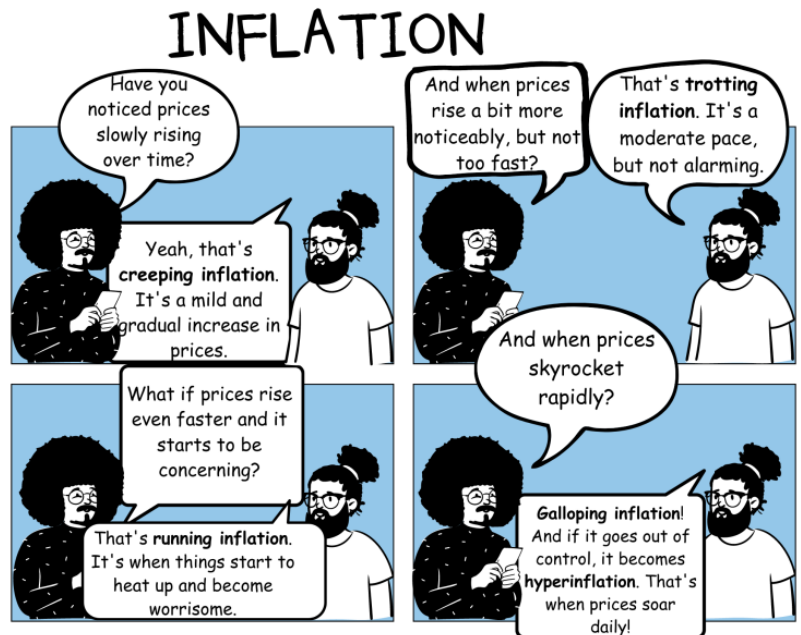
Hyperinflation is the most severe type of inflation, with prices increasing at a rate of over 1000% per year. This type of inflation can lead to a complete breakdown of the economy and society, as people's savings become worthless and businesses struggle to operate. One famous example of hyperinflation occurred in Germany in the 1920s, when the price of a loaf of bread went from 250 marks to over 200 billion marks in just a few years.

## Mismatch between Demand and Supply

### Demand Pull Inflation

Demand-pull inflation occurs when the demand for goods or services in an economy exceeds the supply, leading to an increase in prices. In this scenario, consumers have more money to spend, and they are willing to pay higher prices to secure the goods or services they desire. This increased demand puts pressure on the available supply, causing prices to rise.

For example, let's say that there is an increase in disposable income due to higher wages or government stimulus. Consumers now have more money to spend, and they may decide to spend it on goods like cars or housing. As the demand for these goods increases, manufacturers and builders increase their prices to match the rising demand, causing the overall price level to increase in the economy.





## Cost Push Inflation

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Cost-push inflation occurs when the cost of producing goods or services increases, leading to an increase in prices. This type of inflation is often caused by factors such as rising wages, raw material costs, or taxes, which increase the cost of production for firms. These firms then pass on these increased costs to consumers by raising prices, causing inflation.

For example, let's say that the price of oil, a key input in the production of many goods and services, increases dramatically. This increase in the cost of oil will increase the cost of production for many firms, such as transportation companies or manufacturers. These firms will then pass on these increased costs to consumers by raising prices, causing the overall price level in the economy to increase. Similarly, if there is an increase in the minimum wage, the cost of labor will increase for firms, which may lead to cost-push inflation.

## Market Equilibrium

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Market equilibrium is a state where the demand for a particular good or service equals the supply of that good or service, resulting in a stable price. At this point, neither consumers nor producers have any incentive to change their behavior, and the market is said to be in equilibrium.

Let's take an example of a market for apples. If the demand for apples is high and the supply is low, the price of apples will increase until the quantity demanded by consumers falls and the quantity supplied by producers increases, eventually leading to a stable price point where the two quantities are equal. Similarly, if the supply of apples is high and the demand is low, the price will decrease until a stable equilibrium point is reached.

## Reasons behind demand-pull inflation and cost-push inflation

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Demand-Pull Inflation	Cost-Push Inflation
<ol style="list-style-type: none"><li>1. Increase in consumer demand for goods and services</li><li>2. Expansionary fiscal policies that boost government spending</li><li>3. Easy availability of credit and low interest rates</li><li>4. Growth in population and consumer spending</li><li>5. Optimistic business expectations leading to increased investments</li></ol>	<ol style="list-style-type: none"><li>1. Increase in production costs, such as wages and raw materials</li><li>2. Rise in energy prices or input costs</li><li>3. Imposition of taxes or regulations that raise production costs</li><li>4. Supply chain disruptions or shortages in key commodities</li><li>5. Increase in import prices due to exchange rate fluctuations</li></ol>

## Measures of inflation

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### Producer Price Index (PPI)

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The PPI is a measure of the average change over time in the prices that producers receive for the goods and services they produce. In other words, it measures the price that producers charge for their products at the wholesale level, before those products reach the final consumer. The PPI is calculated by measuring the changes in the prices of a basket of goods and services that are representative of the types of products that producers sell.

Formula:

**PPI = (Total revenue from selling goods at current prices / Total revenue from selling goods at base year prices) x 100**

- The "Total revenue from selling goods at current prices" is the total amount of money that producers are making from selling their goods and services at the current prices.
- The "Total revenue from selling goods at base year prices" is the total amount of money that producers would have made if they had sold the same goods and services at the prices that prevailed in a chosen base year.
- Dividing the current revenue by the base year revenue gives us a ratio that tells us how much prices have changed since the base year. Multiplying that ratio by 100 gives us the percentage change in prices.

For example, let's say that in the base year, a producer sold 100 units of a particular product for \$10 each, for a total revenue of \$1,000. In the current year, the same producer sells 100 units of the same product for \$12 each, for a total revenue of \$1,200. Using the PPI formula, we can calculate the percentage change in prices as follows:

$$\text{PPI} = (\$1,200 / \$1,000) \times 100$$

$$\text{PPI} = 120$$

So in this example, the PPI would be 120, meaning that prices have increased by 20% since the base year.

## Wholesale Price Index (WPI)

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Wholesale price index (WPI) is an economic indicator that measures the change in the average price level of goods that are traded in the wholesale market. In India, the wholesale price index is calculated and published by the Office of the Economic Adviser, Ministry of Commerce and Industry.

The basket of goods used to calculate WPI includes around 697 items that are classified into three major groups: primary articles, fuel and power, and manufactured products. The weightage of each group in the basket is as follows:

- **Primary articles: 22.62%**
- **Fuel and power: 13.15%**
- **Manufactured products: 64.23%**

## Consumer Price Index (CPI)

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Consumer Price Index (CPI) is a measure of the average change over time in the prices paid by consumers for a basket of goods and services.

In India, the CPI is calculated by the Ministry of Statistics and Programme Implementation (MOSPI) on a monthly basis. The index measures the price changes in a basket of goods and services that represent the consumption pattern of households in urban and rural areas of India.

The basket of goods and services used in the calculation of CPI includes a wide range of items such as food, clothing, housing, fuel and light, transport, education, and medical care. The number of articles in the basket and the weightage of each item are reviewed and revised periodically to ensure that it accurately reflects the consumption pattern of households in India.

$$\text{CPI} = (\text{Cost of basket of goods and services in current year} / \text{Cost of basket of goods and services in base year}) \times 100$$

To understand this formula better, let's take an example. Suppose the cost of the basket of goods and services in the base year (2010) was Rs. 100 and the cost of the same basket in the current year (2021) is Rs. 150. Then, the CPI for 2021 would be calculated as follows:

$$\text{CPI} = (150 / 100) \times 100 = 150$$

This means that the cost of living has increased by 50% since the base year.

The weightage of different items in the basket of goods and services is determined by the proportion of expenditure on each item by households in India. For example, food and beverages have a weightage of 45.86%, housing has a weightage of 10.07%, and transport and communication have a weightage of 8.59%.

In India, there are four types of Consumer Price Index (CPI) that are compiled by the Ministry of Statistics and Programme Implementation (MOSPI). These are:

**CPI - Urban (CPI-U)** This index measures the changes in the prices of a basket of goods and services consumed by households residing in urban areas of India.

**CPI - Rural (CPI-R)** This index measures the changes in the prices of a basket of goods and services consumed by households residing in rural areas of India.

**CPI - Combined (CPI-C)** This index is a weighted average of the CPI-U and CPI-R, with weights based on the population distribution of urban and rural areas in India. The CPI-C is considered the most comprehensive measure of inflation in India.

**CPI-Industrial Workers (IW), CPI-Agricultural Labourer (AL), CPI-Rural Labourer (RL)** This index measures the changes in the prices of a basket of goods and services consumed by industrial workers, Agricultural labourers and Rural Labourers in India. The basket of goods and services for the CPI-IW, CPI-AL & CPI-RL is different from the CPI-U and CPI-R and includes items such as housing, education, medical care, and recreation.

### Comparison of Wholesale Price Index (WPI) and Consumer Price Index (CPI)

Criteria	WPI	CPI
<b>Full Form</b>	Wholesale Price Index	Consumer Price Index
<b>Basket of Goods</b>	Goods at the wholesale level <ul style="list-style-type: none"> <li>• Primary Articles: 22.62%</li> <li>• Fuel and Power: 13.15%</li> <li>• Manufactured Products: 64.23%</li> </ul>	Goods and services at retail level CPI (Combined) <ul style="list-style-type: none"> <li>• Food and Beverages- 45.8%</li> <li>• Pan, Tobacco &amp; Intoxicants- 2.38%</li> <li>• Clothing &amp; Footwear- 6.5%</li> <li>• Housing- 10%</li> <li>• Fuel &amp; Light- 6.8%</li> <li>• Miscellaneous- 28.3%</li> </ul>
<b>Frequency</b>	Monthly	Monthly
<b>Target Audience</b>	Producers and traders	Households and consumers
<b>Coverage</b>	Covers goods at the wholesale level	Covers goods and services at retail level
<b>Base Year</b>	2011-12	2012
<b>Published</b>	Office of the Economic Adviser	CPI-Urban, CPI-Rural, CPI-Combined- National

<b>by</b>	(OEA), Ministry of Commerce and Industry	Statistical Office (NSO) in the Ministry of Statistics and Programme Implementation. CPI-Industrial Workers (IW), CPI-Agricultural Labourer (AL), CPI-Rural Labourer (RL)- Labour Bureau in the Ministry of Labour and Employment
<b>Purpose</b>	Used as a measure of inflation and to set prices in trade transactions	Used as a measure of inflation affecting households and consumers, and to make policy decisions

## GDP deflator

The GDP deflator is a measure of the price level of all the goods and services produced within a country's borders in a given period of time, typically a year. It is a widely used tool to track inflation and changes in the overall price level of an economy.

The formula for calculating the GDP deflator is:

$$\text{GDP deflator} = (\text{Nominal GDP} / \text{Real GDP}) \times 100$$

Here, nominal GDP refers to the value of all goods and services produced within an economy in current prices, while real GDP is the value of all goods and services produced within an economy in constant prices (i.e. prices from a base year).

Let's take an example to understand this better. Suppose an economy produces only two goods: burgers and hot dogs. In year 1, it produces 100 burgers at a price of \$2 each, and 200 hot dogs at a price of \$1 each. So, the nominal GDP in year 1 would be:

$$\begin{aligned} \text{Nominal GDP} &= (100 \text{ burgers} \times \$2 \text{ per burger}) + (200 \text{ hot dogs} \times \$1 \text{ per hot dog}) \\ &= \$200 + \$200 \\ &= \$400 \end{aligned}$$

Now, let's suppose that in year 2, the economy produces the same number of burgers and hot dogs, but the price of burgers has increased to \$3 each, while the price of hot dogs has remained the same at \$1 each. So, the nominal GDP in year 2 would be:

$$\begin{aligned} \text{Nominal GDP} &= (100 \text{ burgers} \times \$3 \text{ per burger}) + (200 \text{ hot dogs} \times \$1 \text{ per hot dog}) \\ &= \$300 + \$200 \\ &= \$500 \end{aligned}$$

To calculate the real GDP, we need to use a base year. Let's assume that year 1 is the base year. So, to calculate the real GDP in year 1, we simply use the prices from year 1. However, to calculate the real GDP in year 2, we need to use the prices from year 1 as well. So, the real GDP in year 1 and year 2 would be:

$$\begin{aligned} \text{Real GDP in year 1} &= (100 \text{ burgers} \times \$2 \text{ per burger}) + (200 \text{ hot dogs} \times \$1 \text{ per hot dog}) \\ &= \$200 + \$200 \\ &= \$400 \end{aligned}$$

$$\begin{aligned} \text{Real GDP in year 2} &= (100 \text{ burgers} \times \$2 \text{ per burger}) + (200 \text{ hot dogs} \times \$1 \text{ per hot dog}) \\ &= \$200 + \$200 \\ &= \$400 \end{aligned}$$

Now that we have the nominal GDP and real GDP for both years, we can calculate the GDP deflator for each year:

$$\begin{aligned}\text{GDP deflator in year 1} &= (\text{Nominal GDP in year 1} / \text{Real GDP in year 1}) \times 100 \\ &= (\$400 / \$400) \times 100 \\ &= 100\end{aligned}$$

$$\begin{aligned}\text{GDP deflator in year 2} &= (\text{Nominal GDP in year 2} / \text{Real GDP in year 1}) \times 100 \\ &= (\$500 / \$400) \times 100 \\ &= 125\end{aligned}$$

As we can see, the GDP deflator has increased from 100 in year 1 to 125 in year 2. This indicates that the overall price level of the economy has increased by 25% between year 1 and year 2.

## Effects of Inflation

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1. **Reduced purchasing power:** Inflation erodes the purchasing power of money. As prices rise, the same amount of money can buy fewer goods and services, leading to a decrease in real income for individuals and households.
2. **Increased production costs:** Rising prices of inputs, such as raw materials and labor, can squeeze profit margins and make it more expensive for businesses to produce goods and services.
3. **Redistribution of wealth:** Those with fixed incomes, such as pensioners or low-wage workers, may find it difficult to keep up with rising prices, while those with assets or investments that can keep pace with inflation may see their wealth preserved or even grow.
4. **Uncertainty and reduced investment:** Businesses may hesitate to invest or expand due to uncertain future costs and demand. This can lead to lower levels of investment, which can impact economic growth and job creation.
5. **Impact on savings and investments:** Inflation can erode the value of savings and fixed-rate investments. If the rate of inflation exceeds the return on investments or savings accounts, the real value of those funds will decrease over time.
6. **Distortion of price signals:** As prices rise, it becomes more challenging to distinguish between changes in relative prices and changes driven by general inflation. This can lead to misallocation of resources and inefficiencies in the allocation of goods and services.
7. **Wage-price spiral:** When prices rise, workers may demand higher wages to maintain their purchasing power. However, if wages rise faster than productivity, it can further fuel inflationary pressures, creating a cycle of rising prices and wages.
8. **International competitiveness:** High inflation rates can impact a country's international competitiveness. If domestic prices rise faster than those in other countries, it can make exports more expensive and imports relatively cheaper, potentially leading to a deterioration in the trade balance.

## Measures to control inflation

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There are several measures that can be used to control inflation, and they can be broadly classified into two categories: monetary measures and fiscal measures.

**Monetary measures** are those that are undertaken by the central bank to regulate the money supply in the economy. The goal is to make money more expensive or less available to borrowers, which can reduce demand for goods and services and help bring down inflation.

1. **Increasing the interest rate:** When the central bank raises the interest rate, borrowing becomes more expensive. This reduces the demand for loans and credit, leading to a decrease in spending by businesses and consumers, and can help slow down inflation. For example, if the interest rate on a loan is 10%, and it is raised to 12%, the cost of borrowing increases, and it becomes more challenging for businesses to invest and consumers to spend.
2. **Reducing money supply:** By reducing the money supply, the central bank can make money more scarce, which can reduce inflation. This is usually achieved by selling government securities or increasing the reserve requirement for banks. When banks have to hold more reserves, they have less money to lend out, which can reduce the money supply and limit inflation.

**Fiscal measures**, on the other hand, are those that are undertaken by the government to influence the overall level of spending in the economy. The government can use these measures to reduce demand for goods and services, which can help to reduce inflation.

1. **Increase taxes:** When the government increases taxes, people and businesses have less money to spend, which can reduce demand for goods and services and help slow down inflation. For example, if the government increases taxes on fuel, people may drive less, leading to a decrease in the demand for petrol/diesel.
2. **Reduce government spending:** When the government reduces its spending, it can help reduce the overall level of demand in the economy, which can help slow down inflation. For example, if the government decides to postpone infrastructure development projects, this can lead to a reduction in demand for construction materials and services.

## Concepts related to Inflation

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### Deflation

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Deflation is a term used to describe a decrease in the overall price level of goods and services in an economy.

Let's say you're an Indian consumer and you go to the grocery store to buy some basic food items. If you notice that the prices of those items are lower than they were the last time you went to the store, that could be a sign of deflation. For example, if the price of a kilogram of rice was ₹50 last week and now it's ₹40, that's deflation.

Deflation can happen for a variety of reasons. One common cause is a decrease in demand for goods and services. When people are buying less, businesses might lower their prices to try to entice customers to make purchases. However, if this trend continues for a long time, it can lead to a cycle of lower prices, which can cause consumers to hold off on spending even more, leading to further reductions in demand and prices. This cycle is known as a deflationary spiral.

Another cause of deflation can be an increase in the supply of goods and services. If there's an oversupply of a particular product, businesses may lower their prices to sell off their excess inventory. This can lead to a drop in the price of that product, and potentially other related products as well.

Deflation can have both positive and negative effects on the economy. On the one hand, lower prices can be good for consumers because they can buy more with the same amount of money.

However, deflation can also lead to economic problems such as decreased investment, increased unemployment, and decreased economic growth.

## Disinflation

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Disinflation refers to a decrease in the rate of inflation. In other words, it's a slowdown in the rate at which prices of goods and services are rising. Disinflation is not the same as deflation, which refers to an actual decline in the general price level of goods and services.

For example, suppose the inflation rate in India was 6% in the previous year, but this year it has decreased to 3%. This means that there has been disinflation of 3%.

While it can have both positive and negative effects on the economy, it is generally viewed as a positive development as it reduces the cost of living for consumers.

## Stagflation

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Stagflation is a term used to describe an economic situation where there is both high inflation and high unemployment. This is a rare occurrence because inflation and unemployment are typically inversely related -- as one goes up, the other goes down.

Stagflation can occur due to a variety of factors, such as supply shocks, external shocks, or monetary policy failures. Let me give you a few examples.

Imagine that there is a sudden increase in oil prices due to political unrest in the Middle East. This would increase the cost of production for companies that rely on oil, such as transportation and manufacturing industries. These companies would then pass on their increased costs to consumers by raising prices. As a result, the overall price level in the economy would increase, leading to inflation. However, at the same time, the increased cost of production might cause companies to cut back on hiring, leading to higher unemployment.

Another example could be a situation where a government tries to stimulate the economy by printing more money, but it is not successful. Instead, the increased money supply might lead to inflation, while the lack of real economic growth might lead to unemployment.

Stagflation is a challenging economic situation because the usual policy tools used to combat inflation or unemployment can be ineffective or even counterproductive in this scenario. For example, if a government tries to reduce inflation by raising interest rates, it might also increase unemployment, making the situation worse.

## Reflation

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Reflation refers to the deliberate attempt by governments or central banks to boost economic activity and raise prices after a period of economic contraction or deflation.

During a period of deflation, people tend to hold onto their money and delay purchases because they expect prices to fall further. This leads to a decrease in demand, which in turn causes prices to drop even further. This can lead to a vicious cycle of falling prices and economic activity.

Reflationary policies aim to break this cycle by stimulating demand and increasing the money supply in the economy. The most common methods of achieving reflation include fiscal policy (such as government spending and tax cuts) and monetary policy (such as lowering interest rates and increasing the money supply).

For example, during the Great Depression of the 1930s, U.S. President Franklin D. Roosevelt implemented a series of reflationary policies known as the New Deal. This included massive government

spending on public works projects, job creation programs, and social welfare programs. These policies helped to stimulate demand and put people back to work, which in turn helped to revive the economy.

Another example of reflationary policy is quantitative easing (QE), which is a form of monetary policy used by central banks to increase the money supply and lower interest rates. This involves the central bank buying government bonds or other assets from financial institutions, which injects new money into the economy and lowers the cost of borrowing. This can stimulate lending and investment, which in turn can help to boost economic activity.

## Open Inflation

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Open inflation is a type of inflation that occurs due to factors that are outside the control of a government or central bank. In other words, it is inflation that is caused by external factors that affect the supply and demand of goods and services in the economy.

One common example of open inflation is when the global price of oil increases. Since oil is an essential input in many industries, such as transportation and manufacturing, an increase in its price can cause the cost of producing goods to go up. As a result, businesses may pass on these higher costs to consumers by raising prices, leading to inflation.

Another example of open inflation is when a natural disaster occurs, such as a hurricane or earthquake. This can disrupt supply chains and cause shortages of goods and services, leading to higher prices.

Open inflation is different from closed inflation, which is inflation that occurs due to internal factors within an economy, such as an increase in the money supply. Closed inflation can be controlled by a government or central bank through monetary policy measures, such as adjusting interest rates or the money supply. However, since open inflation is caused by external factors, it can be more difficult to control.

## Headline Inflation

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Headline inflation is the overall rate of inflation that is reported in the news and on economic indicators. It is usually measured by the Consumer Price Index (CPI), which tracks the price changes of a basket of goods and services that are commonly consumed by households.

For example, if the headline inflation rate is reported as 2%, it means that the average prices of goods and services in the economy have increased by 2% over the past year.

It's important to note that headline inflation may not reflect the actual inflation experienced by individuals or specific groups in the economy. This is because different types of goods and services may have different rates of price increase, and individuals' consumption patterns may differ from the basket of goods and services used to measure headline inflation.

## Core Inflation

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Core inflation is a measure of inflation that excludes certain volatile items that can cause prices to fluctuate rapidly and unpredictably. This is done to get a more accurate picture of underlying inflation trends in the economy.

Items that are excluded include food and fuel prices, which can be influenced by factors such as weather, geopolitical events, and natural disasters.

For example, let's say that the price of gasoline suddenly goes up by 50% due to a major supply disruption. This would cause a sharp increase in overall inflation, but it would not necessarily be indicative of a sustained increase in inflationary pressures in the economy. By excluding such volatile



items, core inflation provides a more stable and reliable measure of inflationary pressures in the economy.

Core inflation is an important measure because it helps policymakers make decisions about monetary policy. For instance, if core inflation is rising, it may indicate that the central bank needs to tighten monetary policy (such as raising interest rates) in order to prevent inflation from spiraling out of control.

## Bottleneck Inflation

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Bottleneck inflation is a type of inflation that occurs when there is a shortage or scarcity of certain goods or services in the economy, causing prices to rise rapidly. This shortage or scarcity creates a "bottleneck" in the supply chain, which leads to higher prices for the goods or services that are in short supply.

Let me give you an example to make this clearer. Imagine that there is a sudden increase in demand for smartphones in India, but the supply of smartphone components, such as microchips, is limited due to a global shortage. As a result, the price of smartphones in India will increase, even if there is no increase in the demand for other goods or services. This is because the limited supply of microchips has created a bottleneck in the smartphone supply chain, leading to higher prices for smartphones.

Another example could be if there is a drought in a certain region of India that produces a lot of rice. This could lead to a shortage of rice, causing the price of rice to rise rapidly. This, in turn, could cause an increase in the prices of other goods and services that use rice as an input, such as food products or animal feed.

Bottleneck inflation is usually temporary and tends to subside once the bottleneck in the supply chain is resolved. However, it can have a significant impact on the overall level of inflation in the short term. It can also be challenging to control with monetary policy measures, such as adjusting interest rates, as it is caused by factors beyond the control of central banks.

## Base Effect

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The base effect refers to the distortion in the calculation of percentage changes in economic indicators, such as inflation or GDP growth, that can arise due to changes in the base year or period used for comparison.

Let me give you an example. Let's say that in the year 2020, the price of a certain good was Rs. 100. In the year 2021, the price of the same good increased to Rs. 120. If we calculate the percentage change in the price from 2020 to 2021, we get a 20% increase.

Now, let's assume that in the year 2022, the price of the same good falls to Rs. 110. If we calculate the percentage change in the price from 2021 to 2022, we get a 8.33% decrease. However, if we calculate the percentage change in the price from 2020 to 2022, we get a 10% increase, which may not reflect the actual trend in prices since it includes the impact of the unusually high price increase in 2021.

This is an example of the base effect. The use of different base years or periods for comparison can lead to distortions in the calculation of percentage changes, making it difficult to accurately gauge the underlying trends in economic indicators.

The base effect is an important concept in economics as it highlights the need to carefully consider the base year or period used for comparison when analyzing economic indicators. It can also be relevant for policymakers when making decisions based on economic data.

## Inflationary Gap

Inflationary gap is a term used in economics to describe a situation where the actual output of an economy exceeds its potential output, resulting in an increase in prices or inflation. In other words, it's a situation where there is too much demand for goods and services in an economy, which causes prices to rise.

To understand inflationary gap, it's important to first understand the concept of potential output. Potential output is the level of production an economy can sustainably produce over the long term without causing inflation. It's determined by factors like the size of the labor force, the availability of capital and technology, and the level of productivity.

Now, let's say that the actual output of an economy exceeds its potential output due to increased demand from consumers and businesses. This means that there is more demand for goods and services than the economy can produce without causing inflation. As a result, businesses may start raising their prices to take advantage of the high demand and make more profits.

For example, let's say that there is a sudden increase in consumer spending in India due to a festive season. People are buying more clothes, food, and gifts, leading to an increase in demand for these goods and services. However, the production capacity of the economy remains the same. As a result, businesses may start raising their prices to take advantage of the high demand and make more profits. This leads to an inflationary gap.

Inflationary gap can have a number of negative consequences for an economy. For one, it can lead to inflation, which can erode the purchasing power of consumers and reduce the overall standard of living. It can also make exports more expensive, which can hurt the competitiveness of an economy in the global market.

To avoid an inflationary gap, governments and central banks can use various policy tools to manage demand and control inflation.

## Deflationary Gap

A deflationary gap occurs when the total spending in an economy is insufficient to purchase all the goods and services that the economy is capable of producing. In other words, there is a gap between the potential output of the economy and the actual output, leading to a decrease in prices and a decrease in economic activity.

To understand this concept better, let's take an example. Let's say that an economy is capable of producing 1000 units of goods and services, but the total spending in the economy is only enough to purchase 900 units. This means that there is a deflationary gap of 100 units (1000 - 900).

As a result of this gap, there will be a decrease in demand for goods and services, leading to a decrease in prices. Businesses will respond to this by reducing their output and laying off workers, which further reduces spending in the economy. This cycle can continue until the economy reaches a new equilibrium point where the output equals the total spending.

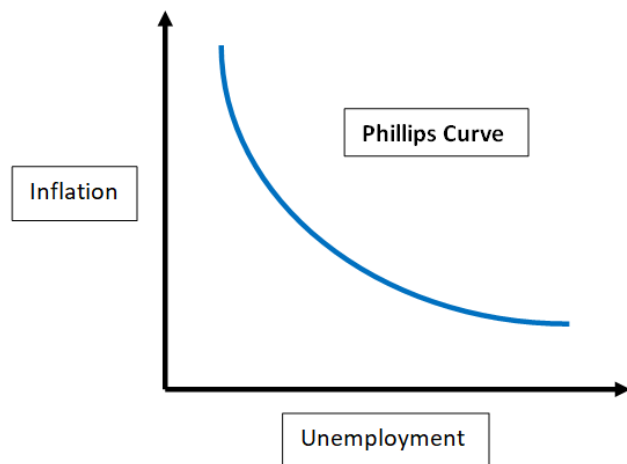
Governments can try to address a deflationary gap by increasing their own spending, lowering taxes, or increasing the money supply through monetary policy. By doing so, they can stimulate spending and help the economy to reach a new equilibrium point with higher levels of economic activity and employment.

## Phillip's Curve

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The Phillips Curve is a graphical representation that shows the relationship between unemployment and inflation. It was named after an economist named A.W. Phillips who first noticed the relationship in the UK economy in the 1950s.

The basic idea behind the Phillips Curve is that when unemployment is low, there is a higher demand for workers and employers have to compete for them by offering higher wages. As wages increase, businesses have to charge higher prices for their products to maintain their profit margins. This increase in prices is what we call inflation.



Conversely, when unemployment is high, there are more workers than there are available jobs. As a result, workers have less bargaining power and wages tend to stay low. This means that businesses don't have to raise their prices as much, and inflation remains low.

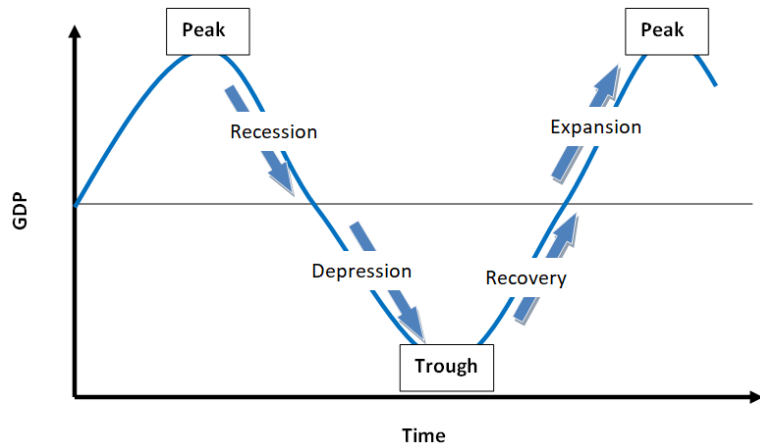
So, the Phillips Curve shows us that there is a tradeoff between unemployment and inflation.

## Business Cycle

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The business cycle refers to the regular and recurring fluctuations in the level of economic activity, which includes growth in gross domestic product (GDP), employment, income, and other economic indicators. These fluctuations occur due to changes in the overall demand and supply of goods and services in the economy, which lead to changes in economic output and employment.

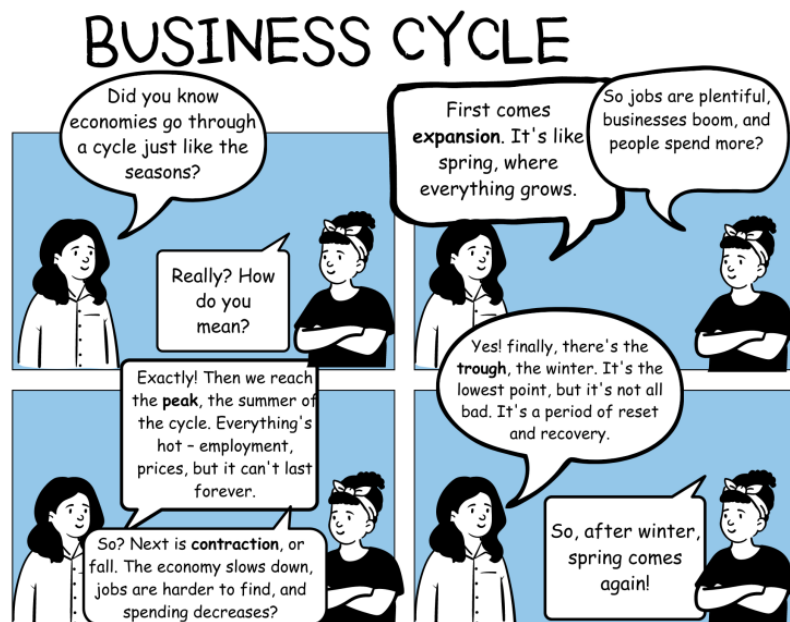
The business cycle has four primary phases, which are expansion, peak, contraction, and trough. Each of these phases represents a different stage in the economic cycle and has distinct characteristics:



1. **Expansion:** During the expansion phase, the economy experiences a period of growth, which is characterized by rising GDP, increasing employment opportunities, and higher income levels. This growth is typically accompanied by a rise in consumer and business confidence, leading to increased investment and spending.
2. **Peak:** The peak phase represents the height of the economic cycle, where economic activity reaches its highest point before beginning to slow down. During this phase, the economy may experience inflation, as the demand for goods and services outstrips supply, leading to rising prices.

3. **Contraction:** In the contraction phase, economic activity starts to slow down, leading to a decline in GDP and employment opportunities. This phase is typically characterized by lower consumer and business confidence, leading to reduced spending and investment.

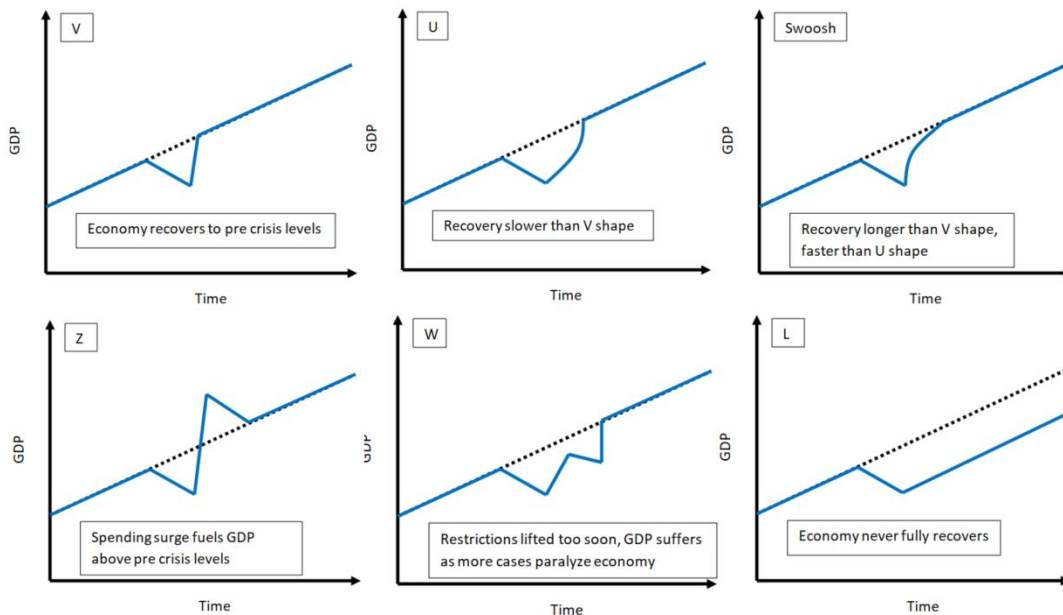
4. **Trough:** The trough phase represents the lowest point in the economic cycle, where economic activity is at its lowest. During this phase, unemployment rates may be high, and businesses may struggle to stay afloat. This phase is followed by Expansion phase.



## Economic Recovery

In general, an economic recovery refers to the process of an economy returning to its pre-recession levels of economic activity. In other words, when an economy experiences a downturn or recession, a recovery is when it starts to bounce back and regain its footing.

There are a few different types of economic recoveries that economists typically talk about.



## V-shaped recovery

V-shaped recovery occurs when an economy experiences a sharp and rapid decline followed by an equally rapid rebound. In this scenario, the recovery is quick and strong, bringing the economy back to its pre-crisis level or even higher.

Example: During the COVID-19 pandemic, some industries witnessed a sharp decline in output and employment due to lockdown measures. As restrictions eased and economic activities resumed, these industries quickly bounced back, showing a V-shaped recovery.

## U-shaped recovery

U-shaped recovery happens when an economy experiences a prolonged downturn before gradually bouncing back. The recovery is slower than a V-shaped one, but it eventually reaches pre-crisis levels.

Example: After the global financial crisis of 2008, many economies experienced a U-shaped recovery. It took some time for consumer and business confidence to improve, and thus, the recovery process was more gradual.

## Swoosh-shaped recovery

Think of the "swoosh" symbol of the Nike sports brand. A swoosh-shaped recovery is similar to a U-shaped one but with a more prolonged and gradual upward slope. It takes longer for the economy to recover fully, and the rebound may not be as sharp as in a V-shaped recovery.

Example: Following the 2020 COVID-19 recession, some countries experienced a swoosh-shaped recovery. The economy slowly improved, but certain sectors faced ongoing challenges, causing a more gradual rebound.

## Z-shaped recovery

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Z-shaped recovery occurs when an economy experiences multiple ups and downs before eventually stabilizing and recovering.

Example: During times of uncertainty, like when a country faces frequent policy changes or international trade fluctuations, the economy might follow a Z-shaped recovery path with several fluctuations before achieving stability.

## W-shaped recovery

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W-shaped recovery is characterized by a double-dip recession. After an initial decline, the economy starts recovering (the first upward stroke of the "W"), but then faces another downturn before eventually rebounding again.

Example: In some situations, a country might experience a W-shaped recovery if a short-lived economic improvement is followed by another setback, such as a new crisis or a second wave of a pandemic.

## L-shaped recovery

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L-shaped recovery is the most challenging scenario. It happens when the economy experiences a sharp decline and remains stuck at a low level for an extended period without significant recovery.

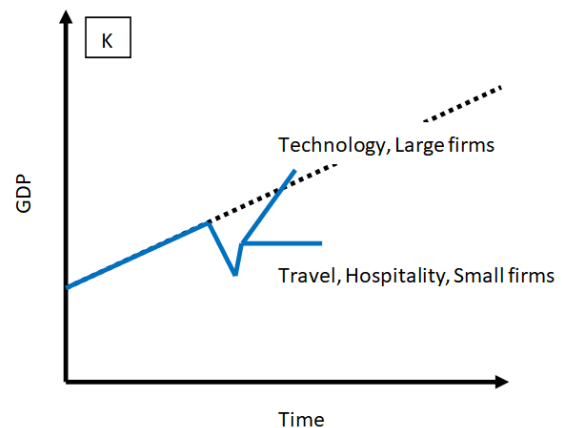
Example: In cases where an economy faces persistent structural issues or fails to implement effective policies, it may undergo an L-shaped recovery, experiencing a long period of stagnation with little or no improvement.

## K-Shaped Recovery

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K-shaped recovery occurs when, after a recession, different parts of the economy recover at different rates, leading to a divergence where some sectors or groups of people experience robust growth while others continue to struggle.

Example: During the COVID-19 pandemic, technology companies and large firms saw rapid recovery and even growth, while sectors like travel, hospitality, and small firms continued to face significant challenges. This divergence in recovery paths creates a "K" shape when charting economic indicators.



## Additional Terms and Concepts

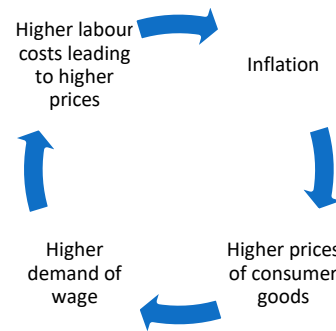
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### Wage-Price Spiral

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The wage-price spiral is a cycle where rising wages lead to higher production costs, which businesses pass on to consumers in the form of higher prices (inflation). In response to rising prices, workers demand higher wages, perpetuating the cycle.

Example: Suppose workers in India receive a 10% wage increase. This increases the cost of production for businesses, which then raise the prices of their goods and services to maintain profitability. As the cost of living increases, workers demand another wage increase to keep up with higher prices, leading to further inflation and continuing the cycle.



### Imported Inflation

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Imported inflation occurs when the overall price level rises in a country due to an increase in the cost of imported goods. This can happen when the price of foreign goods increases or when the country's currency depreciates, making imports more expensive.

Example: India imports a large portion of its oil. If global oil prices rise or the Indian Rupee depreciates against the U.S. Dollar, the cost of importing oil increases. This higher cost is passed on to consumers through higher prices for petrol and other goods and services that depend on oil, leading to imported inflation.

### Skewflation

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Skewflation occurs when the prices of some goods and services rise significantly while others remain stable or even fall. This uneven inflation can distort the economy and create disparities.

Example: In India, if the price of vegetables rises sharply due to a poor harvest, but the prices of electronics and clothing remain stable, this uneven price increase is known as skewflation. It affects consumer spending patterns and can lead to economic imbalances.

### Greenflation

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Greenflation refers to the rising costs associated with transitioning to a green economy. This includes the increased prices of goods and services due to environmental regulations, carbon taxes, and investments in renewable energy.

Example: As India invests heavily in renewable energy sources like solar and wind power, the costs of transitioning from fossil fuels can lead to higher electricity prices. Additionally, stricter environmental regulations and carbon taxes can increase the costs of production for industries, leading to higher prices for consumers. This phenomenon is known as greenflation.

## Previous Years Prelims Questions

1.	<p>With reference to the Indian economy, demand-pull inflation can be caused/increased by which of the following?</p> <ol style="list-style-type: none"> <li>1. Expansionary policies</li> <li>2. Fiscal stimulus</li> <li>3. Inflation-indexing wages</li> <li>4. Higher purchasing power</li> <li>5. Rising interest rates</li> </ol> <p>Select the correct answer using the code given below.</p> <ol style="list-style-type: none"> <li>a) 1, 2 and 4 only</li> <li>b) 3, 4 and 5 only</li> <li>c) 1, 2, 3 and 5 only</li> <li>d) 1, 2, 3, 4 and 5</li> </ol>	2021
2.	<p>Which one of the following is likely to be one of the most inflationary in its effects?</p> <ol style="list-style-type: none"> <li>a) Repayment of public debt</li> <li>b) Borrowing from the public to finance a budget deficit</li> <li>c) Borrowing from the banks to finance a budget deficit</li> <li>d) Creation of new money to finance a budget deficit</li> </ol>	2021
3.	<p>Which of the following factors/policies were affecting the price of rice in India in the recent past?</p> <ol style="list-style-type: none"> <li>(1) Minimum Support Price</li> <li>(2) Government's trading</li> <li>(3) Government's stockpiling</li> <li>(4) Consumer subsidies</li> </ol> <p>Select the correct answer using the code given below:</p> <ol style="list-style-type: none"> <li>(a) 1, 2 and 4 only</li> <li>(b) 1, 3 and 4 only</li> <li>(c) 2 and 3 only</li> <li>(d) 1, 2, 3 and 4</li> </ol>	2020
4.	<p>Consider the following statements :</p> <ol style="list-style-type: none"> <li>(1) The weightage of food in Consumer Price Index (CPI) is higher than that in Wholesale Price Index (WPI).</li> <li>(2) The WPI does not capture changes in the prices of services, which CPI does.</li> <li>(3) The Reserve Bank of India has now adopted WPI as its key measure of inflation and to decide on changing the key policy rates.</li> </ol>	2020



	<p>Which of the statements given above is/are correct?</p> <p>(a) 1 and 2 only  (b) 2 only  (c) 3 only  (d) 1, 2 and 3</p>	
5.	<p>With reference to inflation in India, which of the following statements is correct?</p> <p>(a) Controlling the inflation in India is the responsibility of the Government of India only  (b) The Reserve Bank of India has no role in controlling the inflation  (c) Decreased money circulation helps in controlling the inflation  (d) Increased money circulation helps in controlling the inflation</p>	2015
6.	<p>Which of the following brings out the 'Consumer Price Index Number for Industrial Workers'?</p> <p>(a) The Reserve Bank of India  (b) The Department of Economic Affairs  (c) The Labour Bureau  (d) The Department of Personnel and Training</p>	2015
7.	<p>Consider the following statements :</p> <p>(1) Inflation benefits the debtors.  (2) Inflation benefits the bond-holders.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2  (d) Neither 1 nor 2</p>	2013
8.	<p>A rise in general level of prices may be caused by</p> <p>(1) an increase in the money supply  (2) a decrease in the aggregate level of output  (3) an increase in the effective demand</p> <p>Select the correct answer using the codes given below.</p> <p>(a) 1 only  (b) 1 and 2 only  (c) 2 and 3 only  (d) 1, 2 and 3</p>	2013

9.	Which one of the following is likely to be the most inflationary in its effect?  (a) Repayment of public debt (b) Borrowing from the public to finance a budget deficit (c) Borrowing from banks to finance a budget deficit (d) Creating new money to finance a budget deficit	2013
10.	Supply of money remaining the same when there is an increase in demand for money, there will be  (a) a fall in the level of prices (b) an increase in the rate of interest (c) a decrease in the rate of interest (d) an increase in the level of income and employment	2013

### Previous Years Mains Questions

1.	Do you agree that the Indian economy has recently experienced V-shaped recovery? Give reasons in support of your answer.	2021
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### Answers

1.	A	2.	D
3.	D	4.	A
5.	C	6.	C
7.	A	8.	D
9.	D	10.	B

# 8 CHAPTER

## MONETARY POLICY



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# Chapter 8

## Monetary Policy

Monetary policy is the process by which the Reserve Bank of India (RBI) uses various monetary policy tools to regulate the money supply in the economy and achieve macroeconomic objectives such as economic growth, price stability, and financial stability.

By adjusting interest rates and using other tools, the central bank can influence borrowing and spending in the economy, which can have ripple effects on employment, inflation, and economic growth.

### Classification of Monetary Policy

There are two main types of monetary policy: expansionary and contractionary.

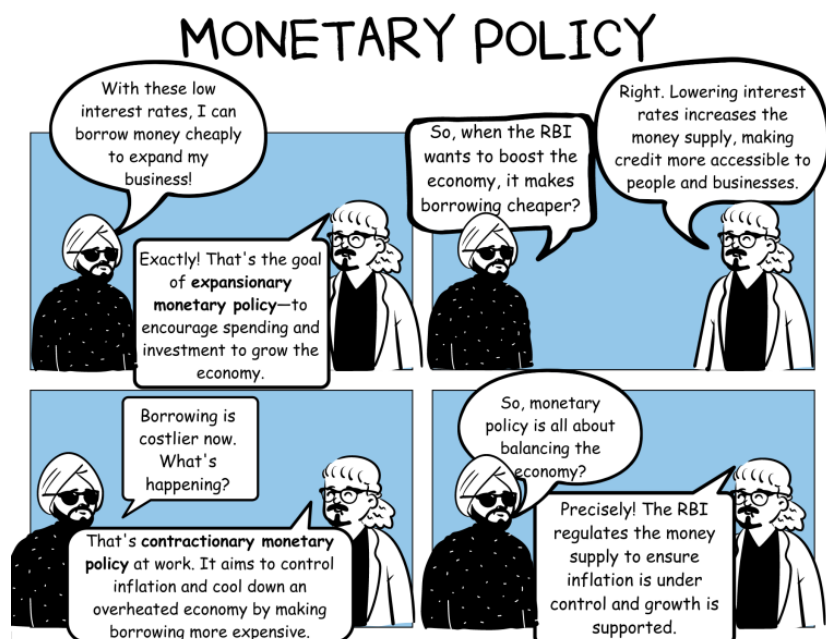
### Expansionary Monetary Policy

Expansionary monetary policy is used by the central bank to stimulate economic growth by increasing the money supply and lowering interest rates. This can be done in a number of ways, such as by buying government bonds, lowering the reserve requirement for banks, or lowering the interest rate at which the central bank lends money to commercial banks. By increasing the money supply, more money is available for businesses and individuals to borrow and spend, which can lead to increased economic activity and job creation.

For example, during the COVID-19 pandemic, the RBI implemented an expansionary monetary policy by lowering interest rates and providing liquidity to the banking system through various measures. This was done to support economic growth and provide relief to individuals and businesses affected by the pandemic.

### Contractionary Monetary Policy

Contractionary monetary policy, on the other hand, is used to slow down the economy and control inflation by reducing the money supply and raising interest rates. This can be done by selling government bonds, raising the reserve requirement for banks, or raising the interest rate at which the



central bank lends money to commercial banks. By reducing the money supply, borrowing and spending become more expensive, which can lead to a decrease in economic activity and inflation.

For example, if the economy is growing too quickly and inflation is rising, the RBI might implement a contractionary monetary policy by raising interest rates to discourage borrowing and spending. This can help to cool down the economy and bring inflation under control.

## Goals of Monetary Policy

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The primary goals of monetary policy in India are:

1. **Controlling inflation:** One of the most important goals of monetary policy is to control inflation. Inflation is the rate at which the general price level of goods and services in an economy is increasing. If inflation is too high, it can lead to a decrease in the purchasing power of money, which can ultimately lead to an economic downturn. The RBI tries to keep inflation within a target range of 2-6% by adjusting interest rates, liquidity in the market, and other monetary tools.

For example, if the RBI believes that inflation is too high, it can raise interest rates. This makes borrowing money more expensive, which can reduce spending in the economy and lower inflation.

2. **Promoting economic growth:** Another important goal of monetary policy is to promote economic growth. This can be achieved by keeping interest rates low to encourage borrowing and spending. When people and businesses can borrow money at lower interest rates, they are more likely to invest in new projects and expand their businesses, which can lead to economic growth.

For example, if the RBI believes that the economy needs a boost, it can lower interest rates. This makes borrowing money cheaper, which can encourage businesses to invest in new projects, create jobs, and contribute to economic growth.

3. **Maintaining financial stability:** Monetary policy also plays an important role in maintaining financial stability. This means ensuring that the financial system is stable and secure, and that the banking system is able to withstand any shocks or crises.

For example, if the RBI believes that the banking system is at risk of collapse, it can increase liquidity in the market by injecting money into the banking system. This helps banks meet their obligations and ensures that people have access to their money.

## Monetary Policy Framework in India

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The monetary policy framework in India is guided by an agreement between the government and the central bank called the Monetary Policy Framework Agreement (MPFA). The MPFA sets out the objectives, targets, and instruments of monetary policy, as well as the process for decision-making and communication.

One of the key objectives of the monetary policy framework in India is to maintain price stability, which means keeping inflation under control. The RBI uses a target for consumer price inflation (CPI) as its guide for setting interest rates. Currently, the target for CPI inflation in India is 4% with a +/- 2% tolerance band. This means that the RBI aims to keep inflation within a range of 2% to 6%.



Another objective of the monetary policy framework in India is to support economic growth. The RBI tries to achieve this by ensuring that credit is available to businesses and households at reasonable interest rates.

## Monetary Policy Committee (MPC)

The MPC is a committee created by the Reserve Bank of India (RBI) to make decisions about the country's monetary policy. The government changed the RBI Act in 2016 to create this committee.

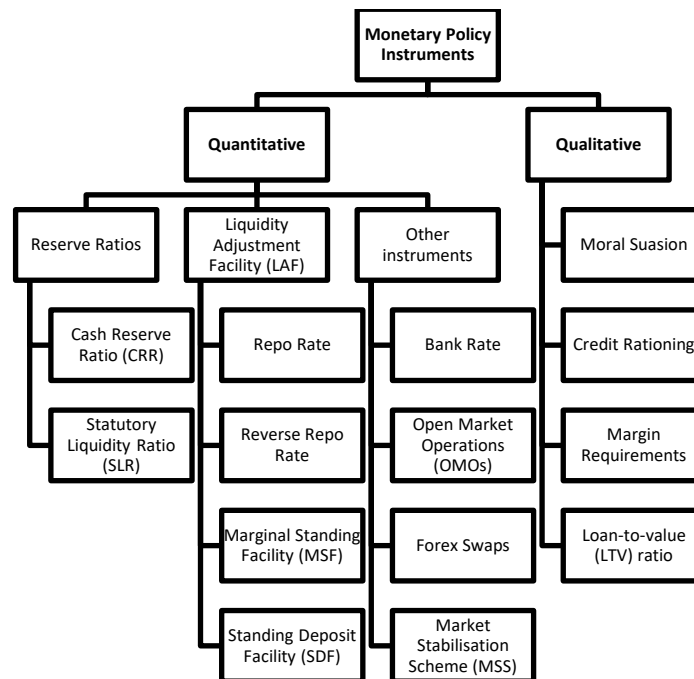
The MPC has six members, including the RBI Governor as the Chairperson, the RBI Deputy Governor in charge of monetary policy, one official nominated by the RBI Board, and three members representing the Government of India. The external members hold office for four years.

The committee meets regularly, and at least four members, including the Governor or Deputy Governor, must be present for the meeting to proceed. The decisions of the MPC are based on a majority vote, and in case of a tie, the RBI Governor has the casting vote.

It is important to note that the decisions of the MPC are binding on the RBI, meaning that the RBI must follow the decisions made by the committee.

## Instruments of Monetary Policy

There are two main types of instruments of monetary policy: quantitative and qualitative.



## Quantitative Methods

Quantitative methods of monetary policy are tools used by the Reserve Bank of India (RBI), to directly influence the quantity of money and credit in the economy. These methods involve changing the amount of money available for lending, which affects interest rates, inflation, and economic growth.

## Cash Reserve Ratio (CRR)

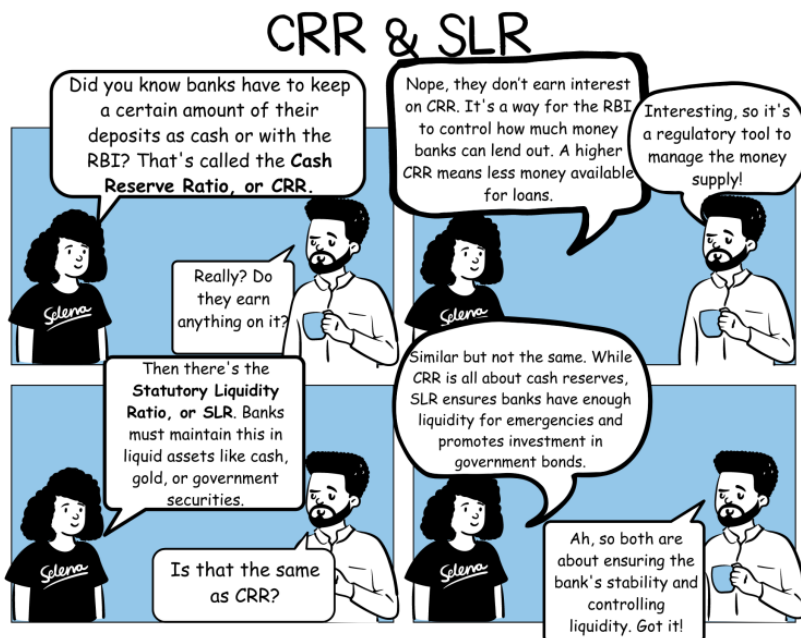
The cash reserve ratio is the percentage of deposits that banks are required to keep in cash or with the central bank as a reserve.

For example, if a bank has deposits totaling Rs. 1000 crore and the RBI has set the CRR at 4%, the bank must keep Rs. 40 crore (4% of Rs. 1000 crore) either in its vaults or with the RBI.

The purpose of the cash reserve ratio is to ensure that banks have enough money in reserve to meet their obligations and prevent bank runs. It also helps the central bank control the money supply in the economy. If the central bank wants to increase the money supply, it can lower the cash reserve ratio, allowing banks to lend out more money. On the other hand, if the central bank wants to decrease the money supply, it can raise the cash reserve ratio, limiting the amount of money that banks can lend out.

## Statutory Liquidity Ratio (SLR)

Statutory Liquidity Ratio (SLR) is a requirement set by the Reserve Bank of India (RBI) which mandates banks to hold a certain proportion of their deposits in safe and easily convertible assets like cash, gold, and government securities. The idea behind this requirement is to ensure that banks have enough funds on hand to meet their obligations to depositors, such as withdrawals or other financial emergencies.



Let's take an example to understand this better. Suppose a bank has Rs.1,000 crore in deposits from its customers. If the CRR requirement is 4% and the SLR requirement is 18%, the bank would need to set aside Rs. 40 crore (4% of Rs. 1000 crore) as CRR and Rs.180 crore (18% of Rs.1,000 crore) as SLR. The remaining Rs. 880 crore is then available for the bank to lend out to borrowers.

Out of this Rs.180 crore, the bank may choose to hold a portion in cash, some in gold, and the rest in government securities. The bank cannot use this money for any other purpose like lending or investment.

SLR has an impact on the liquidity of banks. If the SLR is increased, banks have to hold a larger portion of their deposits in liquid assets, which can reduce the funds available for lending. On the other hand, if the SLR is decreased, banks have more funds available to lend, which can boost economic growth.

CRR	SLR
It is the percentage of deposits that banks must keep in cash reserves with the RBI.	It is the percentage of deposits that banks must maintain in liquid assets such as cash, gold, and government securities.

Cash reserves to be kept in Bank's vault or with the RBI.	Liquid assets to be kept with the bank itself.
No interest is paid on the cash reserves held by the RBI.	Returns are earned on the liquid assets held by the bank.
Decreases the liquidity in the banking system as banks have to keep aside a portion of their deposits as cash reserves, which reduces the funds available for lending.	Decreases the liquidity in the banking system as banks have to maintain a certain portion of their deposits in liquid assets, which also reduces the funds available for lending.

## Liquidity Adjustment Facility (LAF)

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The Liquid Adjustment Facility (LAF) is a tool used by the Reserve Bank of India (RBI) to manage the liquidity (availability of money) in the banking system.

### Components of LAF

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1. **Repo and Reverse Repo Operations:** Banks can either borrow money from the RBI (repo operations) or lend money to the RBI (reverse repo operations) depending on their liquidity situation. These operations can be overnight or for a specified term, and the rates can be fixed or variable.
2. **Marginal Standing Facility (MSF):** This allows banks to borrow funds overnight from the RBI against government securities, at a rate higher than the repo rate, thus forming the ceiling of the liquidity corridor.
3. **Standing Deposit Facility (SDF):** This allows banks to deposit excess funds with the RBI without needing collateral, at a rate typically lower than the repo rate. It helps in setting the floor of the liquidity corridor.

### How LAF Works

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- **Injecting Liquidity:** When banks face a shortage of funds, they can borrow from the RBI under the repo operations or the MSF. This injects liquidity into the banking system, ensuring banks have enough funds to meet their obligations.
- **Absorbing Liquidity:** When there is excess liquidity, banks can park their funds with the RBI through reverse repo operations or the SDF. This helps in absorbing the surplus liquidity, preventing it from leading to inflationary pressures.

The LAF not only ensures that there is enough liquidity in the system but also that it is not in excess, maintaining a balance that supports economic stability and growth. By adjusting the rates and terms of these operations, the RBI can influence other interest rates in the economy, including those for loans and savings, and thus indirectly steer economic activities.

**Repo Rate:** Repo stands for repurchase agreement. Essentially, a repo transaction is a short-term borrowing arrangement between the RBI and commercial banks. Here's how it works:

Let's say a bank needs cash to meet its immediate funding requirements. It can approach the RBI and offer some of its government securities as collateral. The RBI will then lend money to the bank, but

with an agreement to repurchase the securities at a future date at a slightly higher price, which includes the interest charged on the loan. The difference between the original price and the repurchase price is the interest earned by the RBI, and this interest rate is called the repo rate.

For example, suppose a bank needs Rs 10 crore to meet its short-term funding requirements. It offers Rs 10 crore worth of government securities as collateral to the RBI. The RBI will lend the bank Rs 10 crore, but with an agreement to repurchase the securities at a future date for Rs 10 crore plus interest charge. Therefore, if the repo rate in this case is 6.5% and loan duration is 14 days, then interest charged by RBI would be  $(6.5\% \text{ of Rs } 10 \text{ crore} * 14/365) = 0.025 \text{ crore}$ .

The repo rate has a direct impact on the cost of borrowing money in the economy. When the RBI raises the repo rate, it becomes more expensive for banks to borrow from the central bank. Banks, in turn, increase their lending rates, making it more expensive for individuals and businesses to borrow money. This reduces the demand for credit, which can help to control inflation. On the other hand, when the RBI lowers the repo rate, it becomes cheaper for banks to borrow money, leading to lower lending rates, and this can increase demand for credit, thus boosting economic growth.

**Reverse Repo Rate:** The reverse repo rate is the rate at which banks lend money to the central bank against the collateral of government securities. It is the opposite of the repo rate. This rate is used primarily when the banking system has surplus funds that they wish to park safely with the RBI, earning some interest on it. The Repo Rate always stands higher than the Reverse Repo Rate.

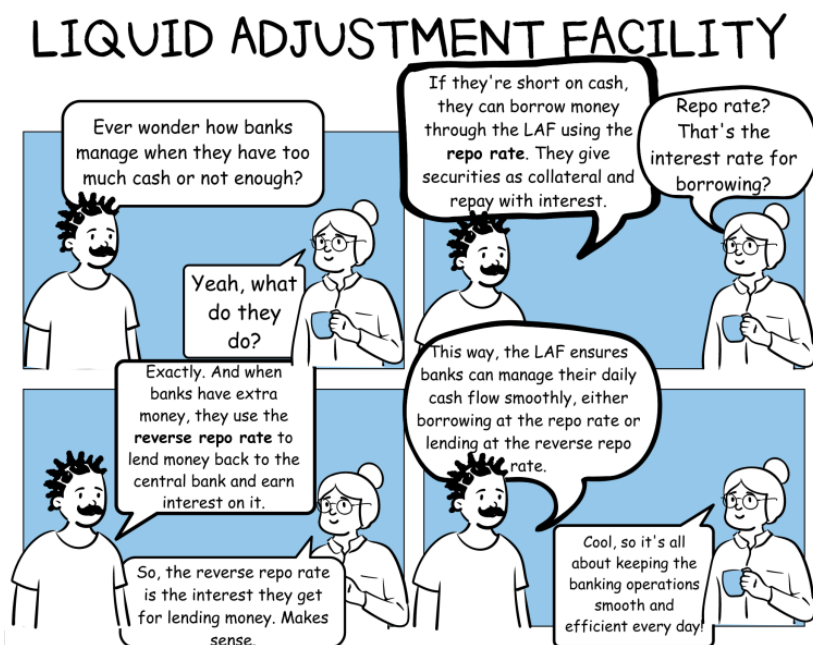
With the introduction of the Standing Deposit Facility (SDF) in April 2022, the reverse repo operations are now more discretionary and strategically

used by the RBI. This means that the central bank can decide when and how much it wants to use the reverse repo rate to absorb liquidity based on current economic conditions and policy goals.

Repos and Reverse Repos can be classified into two types based on the duration of the borrowing or lending period: overnight and term.

### *Overnight Repo and Reverse Repo*

The most commonly utilized liquidity mechanisms of the RBI are the overnight repo and reverse repo (referred to as repo and reverse repo), which are available for commercial banks to manage their daily liquidity requirements. In this setup, a bank in need of funds can obtain them through the repo window. Conversely, if the bank has surplus funds, it can deposit these with the RBI using the reverse repo window. Both these facilities are designed for overnight use, meaning they are typically available for just one day.



## *Term Repo*

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A term repo is essentially a repurchase agreement that spans more than one day, with "term" indicating a longer duration. This allows banks to borrow funds from the RBI over periods longer than a day. Similar to standard repos, banks must provide securities to the RBI as collateral. However, due to the longer borrowing period, the interest rate on a term repo is typically higher than that of an overnight repo.

Term repos are also referred to as **Variable Rate Repos (VRR)**. The "variable rate" label indicates that the interest rate fluctuates based on the auction rate.

In India, term repos commonly last 7, 14, or 28 days. Their primary purpose is to maintain liquidity within the banking system. Unlike the daily availability of standard repos, term repo auctions are held as per RBI's schedule, typically twice a week.

Banks must bid in auctions to secure funds, with the RBI pre-announcing the total auction amount for the entire banking system. The interest rate is decided by the auction, with a cutoff rate set above the repo rate, preventing banks from offering lower rates.

Example: Suppose a commercial bank in India, let's call it "Bank A," finds itself in need of additional funds to manage a temporary shortfall due to unexpected withdrawals or to meet regulatory requirements. Bank A determines it needs Rs. 1000 crores for a period of 14 days.

The Reserve Bank of India (RBI) announces a Variable Rate Repo auction for a total of Rs. 5000 crores available to the banking system. Bank A decides to participate in this auction. During the auction, banks submit their bids for the amount they need and the interest rate they are willing to pay. The RBI has set the base repo rate at 6%.

Bank A places a bid for Rs. 1000 crores at a rate of 7% to ensure it stands a better chance of winning the bid in the competitive auction environment. The auction concludes, and Bank A's bid is successful, if Bank A's bid is higher than the cutoff rate decided by RBI. The bank receives Rs. 1000 crores at an interest rate of 7% for 14 days. As part of the agreement, Bank A provides securities worth Rs. 1000 crores to the RBI as collateral. These securities will be repurchased by Bank A at the end of the term, accounting for the principal and the agreed-upon interest.

## *Term Reverse Repo*

---

A term reverse repo is essentially the inverse of a term repo, where instead of borrowing, banks deposit their excess funds with the RBI for a period longer than one day. As the funds are locked in for a longer period compared to overnight reverse repos, the interest received is usually higher. Term reverse repos are also referred to as **Variable Rate Reverse Repos (VRRR)**.

For participation, banks must bid at the auctions to place their excess funds, with the RBI announcing the total absorption amount for the banking system beforehand. The interest rate for these funds is also determined through the auction, with a cutoff rate usually set above the prevailing reverse repo rate to ensure competitive returns for the banks.

Example: If there is excessive liquidity post-festive season, the RBI might decide to absorb Rs. 20,000 crores for 7 days through a VRRR auction. Banks bid on the interest rate they would accept, and the RBI selects the bids that meet its targets, effectively removing excess liquidity from the market for the duration.

## Differences between Overnight Repo/Reverse Repo and Term Repo/Reverse Repo

Feature	Overnight Repo/Reverse Repo	Term Repo/Reverse Repo
Duration	Overnight (1 day)	Longer than one day, usually 7, 14, or 28 days
Purpose	To manage daily liquidity needs	To manage medium-term liquidity needs
Availability	Available daily from Monday to Friday	Scheduled by RBI, typically twice a week
Collateral	Securities provided to RBI	Securities provided to RBI
Rate Determination	Predetermined by RBI	Variable Rate, determined through competitive auction
Use Case	Short-term deficits or surpluses	Medium-term financial planning and stability

## Marginal Standing Facility (MSF)

The Marginal Standing Facility (MSF) Rate is a rate at which commercial banks can borrow funds overnight from the Reserve Bank of India by pledging government securities from their SLR quota. However, there's a limit to this: banks can only dip into up to 2% of their SLR holdings for borrowing under the MSF. The MSF rate is usually set higher than the repo rate and acts as a penal rate, meaning it's used primarily during emergency situations when banks need immediate liquidity.

Let's consider a practical scenario:

- Assume a bank (Bank A), has total net demand and time liabilities (NDTL) of Rs. 100 crore.
- According to regulatory requirements, Bank A must maintain an SLR of 18% of its NDTL, which amounts to Rs. 18 crore held in government securities and other approved forms (cash, gold).
- Under MSF, Bank A can borrow funds by pledging up to 2% of its SLR securities. So, 2% of its Rs. 18 crore SLR holdings amounts to Rs. 0.36 crore.
- Now if Bank A faces unexpected large cash withdrawals due to some reason, leading to a shortage of liquid cash. To manage this situation, Bank A decides to use the MSF facility.
- It pledges Rs. 0.36 crore worth of government securities from its SLR holdings to borrow funds overnight from the RBI.

This option is usually utilized when there is significant pressure on the banks' short-term liquidity needs that cannot be met through other means, such as the repo or the normal inter-bank market. Even though this rate is higher than the usual lending rates (like the repo rate), it provides a crucial safety valve for banks in times of acute liquidity stress.

## Importance of MSF Rate

1. **Emergency Liquidity Support:** The MSF acts as a last-resort for banks facing severe liquidity crises, allowing them to access funds quickly and maintain their operations smoothly.
2. **Rate Ceiling in the LAF Corridor:** The MSF rate helps in forming the upper bound of the Liquidity Adjustment Facility (LAF) corridor. With the repo rate at the center and the SDF rate at the lower end, the MSF rate at the top forms a boundary that helps stabilize short-term interest rates and maintain orderly conditions in the money market.
3. **Discourages Excessive Risk-Taking:** By setting the MSF rate higher than the repo rate, it acts as a penal rate, discouraging banks from overly relying on this facility except in genuine cases of need. This helps in maintaining discipline in the banking system.

## Standing Deposit Facility (SDF)

The Standing Deposit Facility Rate, or SDF Rate, is the interest rate at which the Reserve Bank of India accepts uncollateralized deposits from commercial banks on an overnight basis.

Think of the SDF Rate as a way for banks to safely store their extra cash at the end of the day. If a bank finds itself with more cash than it needs (more than what it wants to lend out or use for other purposes), it can deposit this excess cash with the central bank overnight and earn interest at the SDF rate.

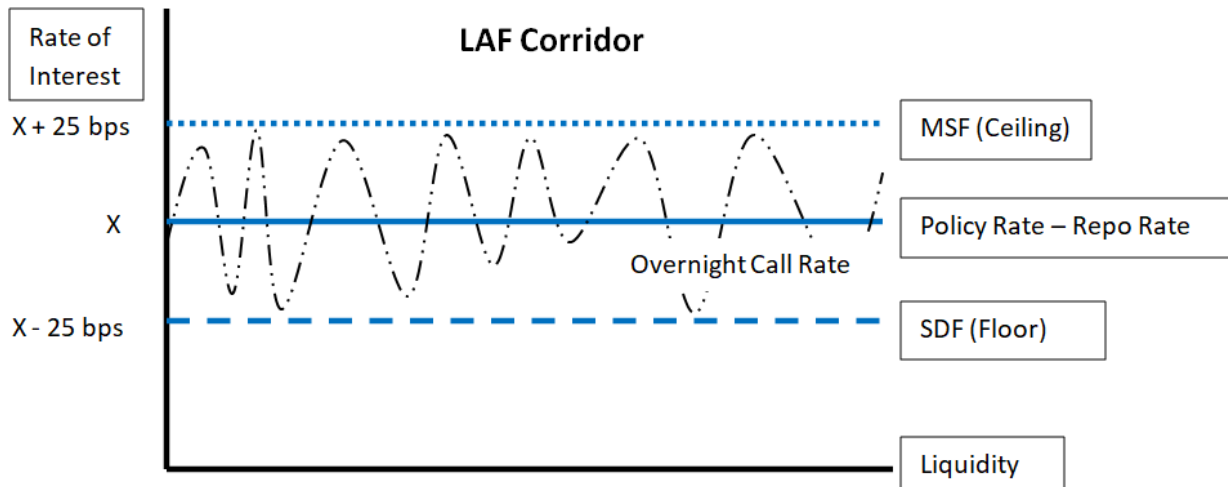
Let's say the SDF rate is 6%. If a commercial bank has an excess of Rs. 10 crore at the end of the day, it can deposit this amount with the central bank. Overnight, it will earn an interest of 6% per annum on these funds. Although the actual amount earned in one night is relatively small, it's a safe and effective way for banks to manage their excess liquidity.

### Importance of SDF Rate

1. **Liquidity Management:** It helps in managing the liquidity in the banking system more efficiently. By providing a facility where banks can deposit their excess funds easily, the central bank can help ensure that there is neither too much nor too little money flowing in the economy.
2. **Financial Stability:** It acts as a financial stability tool by providing a floor to the interest rates in the money market. This floor helps prevent interest rates from falling too low, which can encourage excessive risk-taking by financial institutions. For example, if the SDF rate is 6 %, banks know they can earn this stable and predictable return without taking additional risks.

## Liquidity Adjustment Facility (LAF) Corridor

The LAF Corridor is a monetary policy tool used by the Reserve Bank of India (RBI) to manage liquidity and stabilize short-term interest rates within a predefined range. The LAF corridor has three key components: the Marginal Standing Facility (MSF) rate as the upper bound (ceiling), the Standing Deposit Facility (SDF) rate as the lower bound (floor), and the policy Repo Rate positioned in the middle.



**MSF Rate (Ceiling):** The MSF rate is typically set higher than the repo rate, by 25 basis points (0.25%).

This rate acts as the ceiling of the LAF corridor, preventing the overnight interest rates (Call money rate) from rising too high, which can happen during liquidity shortages. [Call money rate is the rate at



which short term funds are borrowed and lent in the money market among banks and financial institutions]

**SDF Rate (Floor):** The SDF rate is set lower than the repo rate, by 25 basis points.

This rate sets the floor of the LAF corridor, ensuring that overnight rates do not fall below a certain level, which could occur during periods of excess liquidity.

**Policy Repo Rate (Middle of the Corridor):**

It serves as the central reference point around which the short-term interest rates in the money market fluctuate.

Example: Imagine a scenario where the policy Repo Rate is set at 4.00%, the MSF rate at 4.25%, and the SDF rate at 3.75%. These rates create a corridor of 50 basis points around the Repo Rate.

When liquidity is tight (i.e., banks need more funds): Banks might borrow from the RBI using the MSF if they are unable to secure loans at rates below the MSF rate of 4.25%. This borrowing sets a cap, ensuring that overnight rates in the interbank market do not exceed this upper limit, thus stabilizing the market even in tight conditions.

When there is excess liquidity (i.e., banks have surplus funds): Banks may choose to deposit their excess funds with the RBI at the SDF rate of 3.75%. This action ensures a minimum return on their idle funds and prevents the market rates from falling below this floor, maintaining stability in the market during excess liquidity conditions.

By maneuvering within this corridor, the RBI can effectively manage market liquidity and guide the short-term interest rates towards its desired policy outcomes, ensuring economic stability.

## Bank Rate

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The Bank Rate is the rate at which the Reserve Bank of India (RBI) lends money to commercial banks without any collateral. It is also known as the **discount rate**.

Historically, the Bank Rate was the primary policy rate, influencing all other short-term interest rates in the economy. A change in the Bank Rate would typically lead to adjustments in the lending and deposit rates across the banking system, thereby impacting overall economic activity.

With the introduction of newer monetary tools such as the Liquidity Adjustment Facility (LAF) and the Marginal Standing Facility (MSF), the role of the Bank Rate has changed. It is no longer used for day-to-day monetary management. Presently, the Bank Rate's primary role is to serve as a reference for calculating penalty rates imposed on banks. These penalties apply if banks fail to maintain the required cash reserve ratio (CRR) or the statutory liquidity ratio (SLR). Penalties are typically set at the Bank Rate plus an additional percentage, such as Bank Rate +3% or Bank Rate +5%.

Example: Consider a situation where a commercial bank fails to maintain the required statutory liquidity ratio (SLR). If the Bank Rate is currently at 4%, and the penalty is set at Bank Rate +3%, the penal interest rate would be 7%. This means the bank would have to pay an additional interest at a 7% rate on the shortfall amount of the SLR. This penalty encourages banks to adhere to regulatory requirements, ensuring financial stability.

The Bank Rate now functions as a signaling rate rather than a direct tool for controlling liquidity. This rate has been aligned with the MSF rate and, changes automatically as and when the MSF rate changes alongside policy repo rate changes.



Feature	Repo Rate	Reverse Repo Rate	MSF Rate	SDF Rate	Bank Rate
<b>Definition</b>	Banks borrow money from the RBI	Banks deposit money with the RBI	Banks can borrow overnight funds from the RBI in emergency	Banks can deposit excess funds with the RBI without collateral	RBI lends money to banks without collateral
<b>Purpose</b>	To inject liquidity into the banking system.	To absorb liquidity from the banking system.	To provide a safety valve against unforeseen liquidity shocks.	To manage short-term excess liquidity.	Mainly used for penal purposes in CRR and SLR non-compliance.
<b>Current Role</b>	Central tool in monetary policy for managing liquidity.	Used at the discretion of the RBI for absorbing liquidity; less prominent after the introduction of the SDF.	Acts as the upper bound (ceiling) in the LAF corridor, limiting short-term interest rate volatility.	Acts as the lower bound (floor) of the LAF corridor, replacing the fixed reverse repo rate.	Aligned with the MSF rate; mainly a benchmark for penalties on reserve shortfalls.
<b>Instrument Type</b>	Collateralized borrowing (against securities). Cannot dip into SLR securities	Collateralized lending (against securities).	Collateralized borrowing (can dip into SLR securities).	Uncollateralized deposit.	Uncollateralized borrowing.
<b>Rate Relative to Repo</b>	Repo rate	At the discretion of RBI	Repo + 25 basis points	Repo – 25 basis points	Aligned with the MSF rate Therefore, (Repo + 25 basis points)
1% = 100 basis points					

## Open Market Operations (OMOs)

OMOs involve buying or selling government securities (such as bonds) in the open market, which affects the amount of money that banks have available to lend.

Let me give you an example. Suppose the RBI wants to increase the money supply in the economy to boost economic growth. To do this, it can purchase government securities from banks and other financial institutions in the open market. When the RBI buys these securities, it pays for them by depositing money into the banks' accounts. This increases the banks' reserves, which means they have more money available to lend out to businesses and individuals. This increase in lending can stimulate economic activity and help to boost growth.

On the other hand, if the RBI wants to decrease the money supply in the economy to control inflation, it can sell government securities in the open market. When the RBI sells these securities, it takes money out of the banks' reserves. This decreases the amount of money that banks have available to lend out, which can reduce borrowing and spending in the economy and help to cool off inflation.

## Forex Swaps

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Forex swaps (or Foreign Exchange Swaps or FX Swaps), including both sell/buy and buy/sell swaps, are financial instruments used by the central bank to manage liquidity and stabilize exchange rates. These instruments involve two distinct transactions: an initial exchange of currencies and a reverse exchange at a later date under pre-agreed terms. Terms of Swap are determined through a Forex Swap auction announced by RBI, wherein commercial banks participate.

### Sell/Buy Forex Swap

**Initial Transaction (Sell Leg):** The central bank sells foreign currency to a commercial bank.

**Future Transaction (Buy Leg):** The central bank agrees to buy the same amount of foreign currency from the commercial bank at a predetermined rate on a specified future date.

#### Purpose:

- **Absorb Liquidity:** By selling foreign currency, the central bank absorbs local currency from the banking system, decreasing liquidity.
- **Stabilize Currency:** Helps prevent the local currency from depreciating by reducing its availability in the market.

Example: The RBI needs to curb excess liquidity in the market to tackle rising inflation. The RBI sells 100 million USD to banks at 80 INR/USD, absorbing Rs. 8 billion from the market, helping to manage inflation and stabilize the economy. One year later, RBI will buy back the 100 million USD from the banks at 81 INR/USD, reintroducing Rs. 8.1 billion into the market.

### Buy/Sell Forex Swap

**Initial Transaction (Buy Leg):** The central bank buys foreign currency from a commercial bank.

**Future Transaction (Sell Leg):** The central bank agrees to sell the same amount of foreign currency back to the commercial bank at a predetermined rate on a specified future date.

#### Purpose:

- **Inject Liquidity:** By buying foreign currency, the central bank injects local currency in the banking system, increasing liquidity.
- **Stabilize Currency:** Helps maintain or increase the value of the local currency by managing foreign currency supply.

Example: The RBI anticipates a liquidity crunch due to upcoming tax payments. The RBI buys 100 million USD from banks at 80 INR/USD, injecting Rs. 8 billion into the market. One year later, RBI sells back the 100 million USD to the banks at 79 INR/USD, absorbing Rs. 7.9 billion from the market.

These forex swap arrangements allow central bank to strategically manage currency supply and liquidity in line with their broader economic goals.

## Market Stabilization Scheme (MSS)

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The Market Stabilization Scheme (MSS) is a monetary policy tool used by the Reserve Bank of India (RBI) to withdraw excess liquidity from the banking system and maintain macroeconomic stability.

Introduced in 2004, MSS is specifically designed to address the challenges associated with significant foreign exchange inflows, which can lead to an undue appreciation of the domestic currency and inflationary pressures.

The primary objective of MSS is to sterilize the liquidity injected into the banking system when the RBI purchases foreign exchange. By absorbing excess liquidity, MSS helps to stabilize the Indian Rupee, preventing excessive appreciation that can adversely affect the export sector.

Under MSS, the RBI issues government-backed securities termed Market Stabilization Bonds (MSBs). The MSBs are sold through auctions to commercial banks and other financial institutions. The funds raised through the issuance of MSS securities are not used for government expenditure. Instead, they are kept in a separate MSS account, ensuring that the money is only used to manage liquidity. Interest on MSS securities is borne by the government, and the principal amount is repaid upon maturity from the funds in the MSS account.

The securities issued under MSS are typically short-term, reflecting its role as a temporary measure to manage liquidity.

MSS was introduced in response to large foreign exchange inflows in the early 2000s, which led to significant appreciation of the Rupee. During the demonetization in 2016, MSS was extensively used to absorb the sudden surge in bank deposits, which increased liquidity dramatically.

Open Market Operations (OMOs)	Market Stabilization Scheme (MSS)
OMOs involve the buying and selling of government securities by RBI	MSS involves the issuance of special bonds to absorb excess liquidity
Regularly used as part of the RBI's routine monetary policy.	Used selectively, activated only when there is significant foreign exchange inflow or other specific liquidity issues.
Can either increase or decrease the money supply, depending on whether the RBI is buying or selling securities.	Primarily aimed at reducing the money supply by absorbing excess liquidity.
Involves regular government securities (Dated G-Secs, T-Bills).	Uses special government securities known as Market Stabilization Bonds (MSBs).

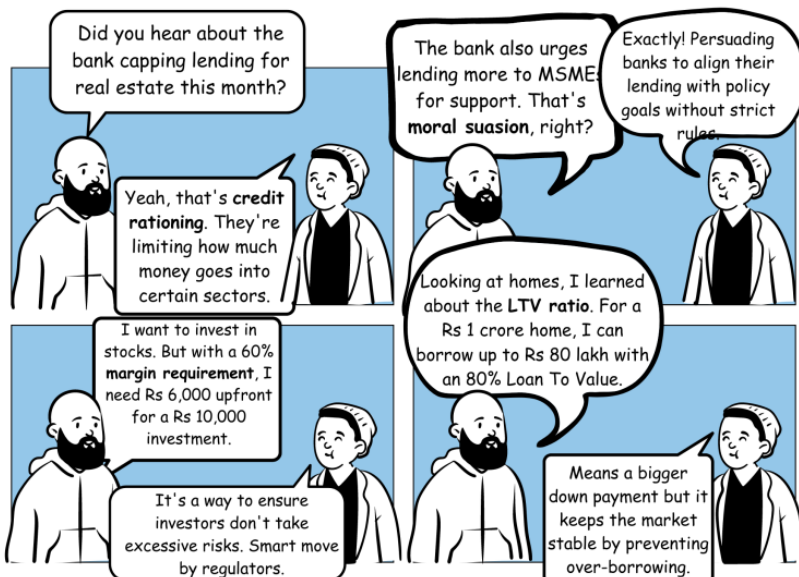
## Qualitative Methods

Qualitative measures are tools used by central banks to influence the behavior of financial institutions and individuals in the economy. These measures focus on changing the structure of financial markets and how money is lent and borrowed rather than just adjusting the overall money supply.

### Credit Rationing

Credit rationing involves the setting of credit limits, i.e., the maximum amount that a bank can lend to its customers. The central

## QUALITATIVE TOOLS



bank can impose restrictions on the lending activities of banks and financial institutions by setting a limit on the amount of credit that they can extend to their customers.

Credit rationing is typically used when traditional monetary policy tools such as interest rates are not enough to influence economic activity. This is because credit rationing can be more targeted and precise, allowing the central bank to control the supply of credit to specific sectors or regions of the economy.

For example, if the RBI believes that the real estate sector is overheating, it can ask banks to limit the amount of money they lend to real estate developers.

## Moral Suasion

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Moral suasion is used by central bank to influence the behavior of banks and financial institutions in the economy. It involves the use of persuasion and moral pressure rather than direct regulatory action to achieve a desired outcome.

Moral suasion is often used in situations where the central bank wants to encourage a certain behavior, but does not want to use heavy-handed regulatory measures that may have unintended consequences. It can also be used to complement other monetary policy measures such as interest rate adjustments and reserve requirement changes.

One example of moral suasion in action was during the global financial crisis of 2008. The Reserve Bank of India (RBI) used moral suasion to encourage banks to increase their lending to micro, small and medium-sized enterprises (MSMEs), which were particularly hard-hit by the crisis. The RBI communicated its expectations to the banks and financial institutions and encouraged them to adopt a more accommodative lending stance towards MSMEs. The moral pressure placed on these institutions helped to increase lending to MSMEs, which in turn helped to support the economy during a difficult time.

## Margin requirements and loan-to-value (LTV) ratio

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**Margin requirements** involve setting a minimum percentage of the purchase price of a security that must be paid in cash, with the remaining balance financed by the broker. This means that the investor has to put down a certain amount of their own money before they can borrow the rest.

For example, let's say an investor wants to buy Rs 10,000 worth of stock. If the margin requirement is 50%, the investor must put down Rs 5,000 of their own money and can borrow the remaining Rs 5,000 from their broker. If the margin requirement is increased to 60%, the investor would need to put down Rs 6,000 of their own money to buy the same amount of stock.

By adjusting margin requirements, central banks can influence the amount of money that investors are able to borrow to invest in securities. This can have a significant impact on the demand for securities and can help to regulate the overall level of economic activity in the country.

**Loan-to-value (LTV) ratio** is another tool used by central banks to regulate the amount of money that can be borrowed by consumers to buy homes and other real estate. The LTV ratio is the amount of the loan compared to the value of the property being purchased. For example, if a home is worth Rs 1,00,000 and the borrower is taking out a Rs 80,000 mortgage, the LTV ratio would be 80%.

Central banks can adjust the LTV ratio to influence the amount of money that consumers are able to borrow to buy real estate. For example, if the central bank raises the LTV ratio from 80% to 90%, borrowers will be able to borrow more money to buy a home. This can lead to an increase in housing purchases and stimulate economic activity. On the other hand, if the central bank lowers the LTV ratio,

borrowers will be able to borrow less money to buy a home, which can help to prevent the housing market from overheating and prevent a potential housing bubble.

## **Limitations of Monetary policy in India**

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1. **Limited Scope:** The RBI can only control the supply of money and the interest rate, but it cannot control the demand for money. This means that even if the RBI reduces the interest rate, it may not lead to increased borrowing and spending by individuals and businesses.
2. **Time Lags:** Monetary policy measures take time to have an effect on the economy. For example, a reduction in interest rates may take several months to filter through the economy and have an impact on consumption and investment.
3. **Structural Constraints:** Certain structural constraints in the Indian economy can limit the effectiveness of monetary policy. For example, India has a large informal sector that is not affected by interest rate changes, and this can limit the impact of monetary policy on the overall economy.
4. **Dependence on Fiscal Policy:** Fiscal policy, which involves government spending and taxation, can also affect the economy. In India, fiscal policy has a significant impact on the economy, and the effectiveness of monetary policy can be limited if fiscal policy is not supportive.
5. **External Factors:** India's economy is also affected by external factors such as global economic conditions, oil prices, and international trade. These factors are outside the control of the RBI, and they can limit the effectiveness of monetary policy in stabilizing the economy.

## **Transmission of monetary policy**

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Transmission of monetary policy refers to how the actions of the Reserve Bank of India (RBI), such as changing the interest rates, affect the lending rates of commercial banks. This is important because the lending rates determine how much individuals and businesses will have to pay for loans from banks, and can impact their spending and investment decisions.

When the RBI changes its monetary policy stance, it expects the commercial banks to adjust their lending rates accordingly. For example, if the RBI reduces the repo rate (the rate at which it lends to commercial banks), it expects the commercial banks to reduce their lending rates to customers as well. This should make borrowing cheaper and encourage more people to take out loans for various purposes, leading to higher spending and economic growth.

However, sometimes the transmission of monetary policy doesn't happen as expected, and the banks may not pass on the rate cuts to their customers, or they may not pass on the full extent of the rate cuts. This can happen for various reasons, such as the banks having high non-performing assets (NPAs) or not having enough liquidity.

To improve transmission of monetary policy, the RBI has taken various measures. One such measure is the introduction of the Marginal Cost of Funds Based Lending Rate (MCLR) system, which replaced the earlier Base Rate system. Under the MCLR system, the lending rates of banks are based on the marginal cost of funds, rather than the average cost of funds as under the Base Rate system. This should make

the transmission of policy rate changes more effective, as any changes in the policy rates should be reflected more quickly in the MCLR.

### Marginal Cost of Funds Based Lending Rate (MCLR)

MCLR is the benchmark interest rate used by banks in India to determine the lending rates for various loans, such as home loans, personal loans, and business loans.

Imagine you want to take a home loan from a bank. The bank needs to determine the interest rate it will charge you for the loan. The MCLR takes into account the cost of funds for banks, which includes various components such as deposit rates, operational expenses, and profit margins.

Let's say the current MCLR of a bank is 7%. This means that if you take a home loan, the interest rate you will be charged will be based on this MCLR rate. However, there is an additional component called the "spread" that is added to the MCLR.

The spread represents the bank's profit margin and covers other factors such as the risk associated with lending to different borrowers, administrative costs, and desired profitability. So, if the bank's spread is 0.5%, the actual interest rate you will be charged for your home loan will be MCLR (7%) + Spread (0.5%) = 7.5%.

The MCLR and the spread can vary across banks and loan products. The Reserve Bank of India (RBI) provides guidelines to banks on calculating the MCLR and ensuring transparency in the interest rate setting process. These guidelines help promote a fair and consistent approach to determining lending rates.

### Effects of Expansionary Monetary Policy

Category	Action/Effect	Explanation
<b>Problem</b>	Recession	Decreased GDP and increased unemployment.
<b>Goal for Aggregate Demand</b>	Increase	Higher demand can kickstart economic recovery
<b>Policy</b>	Expansionary monetary policy	To increase the money supply and lower interest rates to encourage borrowing and investment.
<b>Tools</b>	Lower reserve ratios (CRR, SLR)	Banks left with more money to loan
	Lower policy rates (Repo Rate etc)	Borrowing from RBI becomes cheaper for banks. Hence they will give more loans
	Buy bonds (Open Market Operations)	Govt directly increases money supply in the economy
<b>Money with Banks for Loans</b>	Increase	Lower reserve requirements and interest rates provide banks with more resources to offer loans.
<b>Money Supply</b>	Increase	Buying bonds injects money into the economy. Banks also offer more loans
<b>Bank Interest Rates</b>	Decrease	Lower policy rates lead to lower lending rates,

		making loans cheaper.
<b>Bond Prices</b>	Increase	Buying bonds raises their price due to higher demand.
<b>Bond Yield</b>	Decrease	An inverse relationship to bond prices; as prices go up, yields go down.
<b>Consumption and Investment</b>	Increase	Lower interest rates and greater loan availability boost spending and capital investments.
<b>Capital Formation in the Economy</b>	Increase	More investment in capital goods and infrastructure due to easier financing conditions.
<b>Aggregate Demand</b>	Increase	Increased consumption and investment raise overall economic demand.
<b>GDP</b>	Increase	Enhanced aggregate demand leads to higher output and economic growth.
<b>Price Levels</b>	Increase	Increased money supply and demand can lead to inflationary pressures.
<b>Inflation</b>	Increase	A byproduct of increased economic activity and money supply.
<b>Unemployment</b>	Decrease	Economic stimulation creates jobs.
<b>Forex Market</b>	Demand of Rupees will decrease	Low Interest Rates/Low bond yields will not attract foreign investors
<b>Exchange Rate</b>	Rupee will depreciate	Low demand for Rupees
<b>Net Exports (X-M)</b>	Increase	A weaker currency makes exports cheaper and more competitive abroad, potentially increasing them.
<b>Benefits of Expansionary Monetary Policy</b>		GDP will increase Unemployment will decrease
<b>Side Effects of Expansionary Monetary Policy</b>		Inflation will increase Rupee will depreciate

### Effects of Contractionary Monetary Policy

<b>Category</b>	<b>Action/Effect</b>	<b>Explanation</b>
<b>Problem</b>	High inflation	High inflation can erode purchasing power and can destabilize the economy.
<b>Goal for Aggregate Demand</b>	Decrease	Reducing demand can help cool down the economy and control inflation.
<b>Policy</b>	Contractionary monetary policy	To reduce money supply and increasing interest rates to dampen economic activity
<b>Tools</b>	Increase reserve ratios (CRR, SLR)	Banks left with less money to loan
	Increase policy rates (Repo Rates etc)	Borrowing from RBI becomes expensive for banks. Hence they give less loans
	Sell bonds (Open Market Operations)	Govt directly decreases money supply in the economy
<b>Money with Banks for</b>	Decrease	Higher reserve requirements and interest



<b>Loans</b>		rates reduce the funds banks have available for lending.
<b>Money Supply</b>	Decrease	Selling bonds withdraws money from the economy, also high interest rates makes loans expensive.
<b>Bank Interest Rates</b>	Increase	Higher policy rates lead to increased lending rates, making loans more expensive.
<b>Bond Prices</b>	Decrease	Selling bonds increases supply, leading to lower prices due to higher availability.
<b>Bond Yield</b>	Increase	An inverse relationship to bond prices; as prices decrease, yields increase.
<b>Consumption and Investment</b>	Decrease	Higher interest rates and reduced liquidity lead to lower consumer spending and business investment.
<b>Capital Formation in the Economy</b>	Decrease	Fewer investments in capital goods and infrastructure due to more restrictive financing conditions.
<b>Aggregate Demand</b>	Decrease	Reduced consumption and investment lower overall economic demand.
<b>GDP</b>	Might decrease or grow more slowly	Lower aggregate demand can slow GDP growth or cause a temporary contraction.
<b>Price Levels</b>	Stabilize or decrease	Lower demand can help stabilize or reduce prices
<b>Inflation</b>	Decrease	The goal of contractionary policy is to reduce inflationary pressures by slowing economic activity.
<b>Unemployment</b>	Increase	Less economic activity can lead to increased unemployment.
<b>Forex Market</b>	Demand for Rupees will increase	High Interest Rates/High bond yields will attract foreign investors
<b>Exchange Rate</b>	Appreciation	High demand for Rupees
<b>Net Exports (X-M)</b>	Decrease	A stronger currency makes exports more expensive and imports cheaper, potentially decreasing net exports.
<b>Benefits of Contractionary Monetary Policy</b>		Inflation will decrease
<b>Side effects of Contractionary Monetary Policy</b>		Growth Rate will decrease Unemployment will increase



## Additional Terms and Concepts

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### *Helicopter Money*

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Helicopter money refers to a type of monetary policy where the central bank directly distributes large sums of money to the public to stimulate the economy. The term was coined by economist Milton Friedman as a thought experiment to illustrate the effects of a sudden increase in the money supply.

Example: Hypothetically, during an economic recession, the Government of India may decide to distribute ₹10,000 directly to every citizen to boost consumer spending and increase demand for goods and services. This direct cash distribution is called helicopter money because it's like dropping money from a helicopter, ensuring that everyone receives it and can spend it immediately.

### *Sterilization*

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Sterilization is a monetary policy tool used by central banks to offset the effects of foreign exchange interventions on the domestic money supply. This involves the central bank buying or selling government securities to neutralize the impact of foreign currency transactions.

Example: Imagine the Reserve Bank of India (RBI) buys U.S. dollars to prevent the Indian Rupee from appreciating too much. This purchase increases the money supply in India because the RBI is effectively injecting Rupees into the economy. To counteract this and avoid inflation, the RBI might sell government securities. By selling these securities, the RBI absorbs the excess Rupees, thus sterilizing the initial intervention and keeping the domestic money supply stable.

### *Liquidity Trap*

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A liquidity trap occurs when interest rates are very low, and people prefer to hold onto cash rather than invest in bonds or other securities that yield little return. In this situation, monetary policy becomes ineffective because lowering interest rates further does not stimulate economic growth.

Example: Imagine the Indian economy is experiencing a severe recession, and the Reserve Bank of India (RBI) lowers interest rates to near zero to encourage borrowing and spending. However, people and businesses remain pessimistic about the future and prefer to save their money rather than spend or invest it. As a result, despite the low interest rates, economic activity does not pick up, and the economy remains stagnant. This situation is known as a liquidity trap.

### *Quantitative Easing (QE)*

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Quantitative easing is a monetary policy tool used by central banks to increase the money supply and stimulate the economy. It involves the central bank purchasing government securities or other financial assets from the market to inject liquidity into the banking system, making it easier for banks to lend money to businesses and individuals.

Example: During the 2008 global financial crisis, the U.S. Federal Reserve implemented QE by buying large amounts of government bonds and mortgage-backed securities. This increased the money supply, lowered interest rates further, and encouraged banks to lend more. As a result, businesses could borrow more easily to invest in growth, and consumers could take out loans to spend on goods and services, helping to revive the economy.

### *Quantitative Tightening (QT)*

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Quantitative tightening is the opposite of quantitative easing. It involves the central bank selling off government securities or other financial assets to reduce the money supply. The goal is to decrease liquidity in the banking system, raise interest rates, and cool down an overheating economy.

## Previous Years Prelims Questions

1.	<p>With reference to the Indian economy, consider the following statements:</p> <ol style="list-style-type: none"> <li>1. If the inflation is too high, Reserve Bank of India (RBI) is likely to buy government securities.</li> <li>2. If the rupee is rapidly depreciating, RBI is likely to sell dollars in the market.</li> <li>3. If interest rates in the USA or European Union were to fall, that is likely to induce RBI to buy dollars.</li> </ol> <p>Which of the statements given above are correct?</p> <p>(a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3</p>	2022
2.	<p>In India, which one of the following is responsible for maintaining price stability by controlling inflation?</p> <p>(a) Department of Consumer Affairs (b) Expenditure Management Commission (c) Financial Stability and Development Council (d) Reserve Bank of India</p>	2022
3.	<p>If the RBI decides to adopt an expansionist monetary policy, which of the following would it not do?</p> <p>(1) Cut and optimize the Statutory Liquidity Ratio (2) Increase the Marginal Standing Facility Rate (3) Cut the Bank Rate and Repo Rate</p> <p>Select the correct answer using the code given below:</p> <p>(a) 1 and 2 only (b) 2 only (c) 1 and 3 only (d) 1, 2 and 3</p>	2020
4.	<p>Which one of the following is not the most likely measure the Government/RBI takes to stop the slide of Indian rupee?</p> <p>(a) Curbing imports of non-essential goods and promoting exports (b) Encouraging Indian borrowers to issue rupee-denominated Masala Bonds (c) Easing conditions relating to external commercial borrowing (d) Following an expansionary monetary policy</p>	2019
5.	<p>What is/are the purpose/purposes of the `Marginal Cost of Funds based</p>	2016

	<p>Lending Rate (MCLR)' announced by RBI?</p> <p>(1) These guidelines help improve the transparency in the methodology followed by banks for determining the interest rates on advances.  (2) These guidelines help ensure availability of bank credit at interest rates which are fair to the borrowers as well as the banks.</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2  (d) Neither 1 nor 2</p>	
6.	<p>With reference to the Indian economy, consider the following</p> <p>(1) Bank rate  (2) Open market operations  (3) Public debt  (4) Public revenue</p> <p>Which of the above is/are component/ components of Monetary Policy?</p> <p>(a) 1 only  (b) 2, 3 and 4  (c) 1 and 2  (d) 1, 3 and 4</p>	2015
7.	<p>When the Reserve Bank of India reduces the Statutory Liquidity Ratio by 50 basis points, which of the following is likely to happen?</p> <p>(a) India's GDP growth rate increases drastically  (b) Foreign Institutional Investors may bring more capital into our country  (c) Scheduled Commercial Banks may cut their lending rates  (d) It may drastically reduce the liquidity to the banking system</p>	2015
8.	<p>In the context of Indian economy; which of the following is/are the purpose/purposes of 'Statutory Reserve Requirements'?</p> <p>(1) To enable the Central Bank to control the amount of advances the banks can create  (2) To make the people's deposits with banks safe and liquid  (3) To prevent the commercial banks from making excessive profits  (4) To force the banks to have sufficient vault cash to meet their day-to-day requirements</p> <p>Select the correct answer using the code given below.</p>	2014

	<p>(a) 1 only  (b) 1 and 2 only  (c) 2 and 3 only  (d) 1, 2, 3 and 4</p>	
9.	<p>If the interest rate is decreased in an economy, it will</p> <p>(a) decrease the consumption expenditure in the economy  (b) increase the tax collection of the Government  (c) increase the investment expenditure in the economy  (d) increase the total savings in the economy</p>	2014
10.	<p>An increase in the Bank Rate generally indicates that the</p> <p>(a) market rate of interest is likely to fall  (b) Central Bank is no longer making loans to commercial banks  (c) Central Bank is following an easy money policy  (d) Central Bank is following a tight money policy</p>	2013
11.	<p>In the context of Indian economy, Open Market Operations' refers to</p> <p>(a) borrowing by scheduled banks from the RBI  (b) lending by commercial banks to industry and trade  (c) purchase and sale of government securities by the RBI  (d) None of the above</p>	2013
12.	<p>Consider the following statements:</p> <p>Statement – I In the post-pandemic recent past, many Central Banks worldwide had carried out interest rate hikes.</p> <p>Statement-II: Central Banks generally assume that they have the ability to counteract the rising consumer prices via monetary policy means.</p> <p>Which one of the following is correct in respect of the above statements?</p> <p>(a) Both Statement-I and Statement-II are correct and Statement- II is the correct explanation for Statement- I  (b) Both Statement-I and Statement-II are correct and Statement- II is not the correct explanation for Statement-I.  (c) Statement-I is correct but Statement-II is incorrect  (d) Statement-I is incorrect but Statement-II is correct</p>	2023
13.	<p>Which one of the following activities of the Reserve Bank of India is considered to be part of 'sterilization?</p> <p>(a) Conducting 'Open Market Operations'</p>	2023

	(b) Oversight of settlement and payment systems (c) Debt and cash management for the Central and State Governments (d) Regulating the functions of Non- banking Financial Institutions	
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**Answers**

1.	B	2.	D
3.	B	4.	D
5.	C	6.	C
7.	C	8.	A
9.	C	10.	D
11.	C	12.	A
13.	A		

# 9

**CHAPTER**

PUBLIC FINANCE  NCE





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# Chapter 9

## Public Finance

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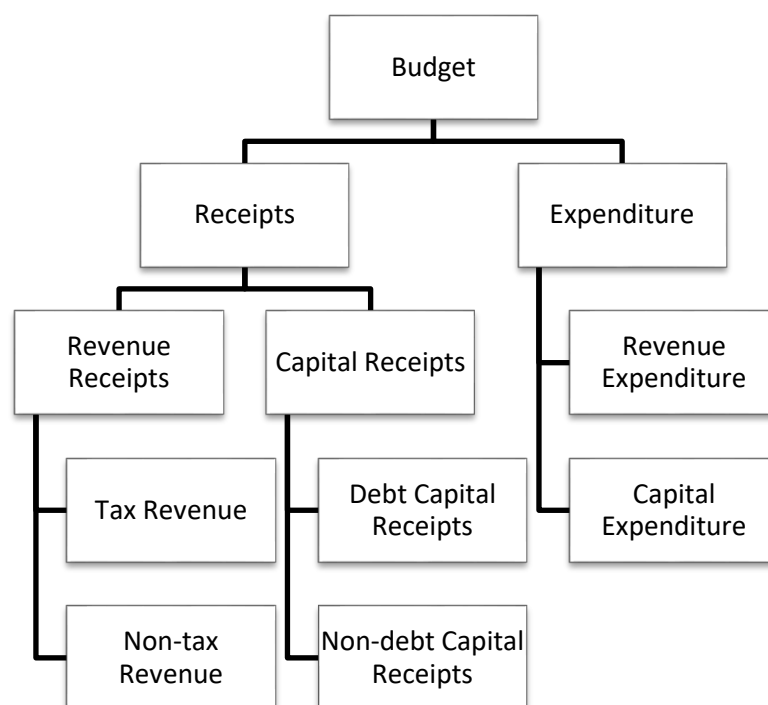
Public finance is essentially the study of how governments manage their finances, including how they raise and spend money to achieve their goals. The primary objectives of public finance are to promote economic growth, ensure social equity and justice, and stabilize the economy during times of economic turbulence. Governments use a variety of tools and policies such as taxation, public spending, borrowing, and fiscal policy to attain these goals. All of this is wrapped up in the Government's annual financial statement, commonly referred to as the Budget.

### Budget

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#### Components of Budget

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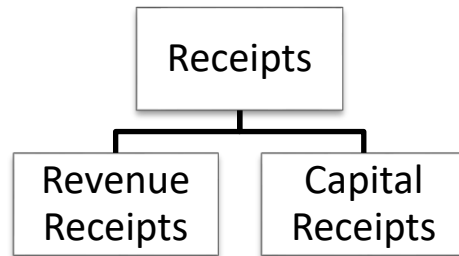
#### Receipts

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Budget receipts refer to the total amount of money that the government expects to receive during a particular fiscal year through various sources such as taxes, fees, and other revenues. These receipts are an essential component of the government's budgeting process as they determine the total amount of money that the government has available to spend.

Budget receipts can be further classified into two types: revenue receipts and capital receipts.

- **Revenue receipts** refer to the regular income generated by the government, such as taxes, duties, and fees.
- **Capital receipts**, on the other hand, refer to the money received by the government from non-recurring sources, such as the sale of assets, borrowings, or foreign aid.

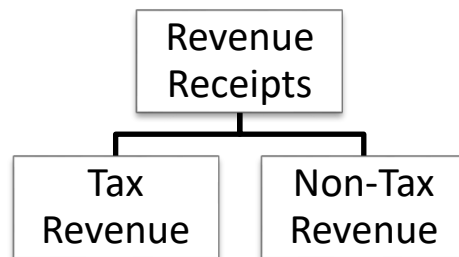


### Revenue Receipts

Revenue receipts refer to the regular and recurring income generated by the government during a particular fiscal year, primarily through taxation, duties, fees, and other similar sources.

Revenue receipts can be further categorized into two types: tax revenue and non-tax revenue.

- Tax revenue is generated by levying taxes on individuals and businesses, such as income tax, corporate tax, and GST.
- Non-tax revenue includes fees and charges collected by the government for services provided, such as license fees, user charges, and fines.

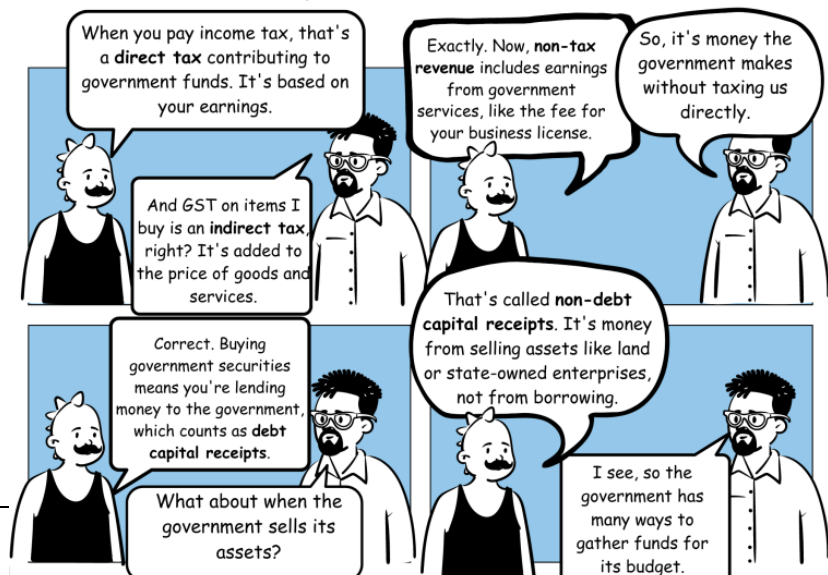


### Tax Revenue

Tax revenue refers to the funds collected by the government through various forms of taxes imposed on individuals, businesses, and other entities. Taxes are the most significant source of revenue for most governments.

Tax revenue can be further classified into direct taxes and indirect taxes.

## BUDGET RECEIPTS



- Direct taxes are levied on income or wealth, such as income tax and wealth tax.
- Indirect taxes, on the other hand, are levied on goods and services, such as Goods & Services Tax (GST), value-added tax (VAT), and customs duties.

### Non-tax Revenue

Non-tax revenue refers to the income generated by the government from sources other than taxes. These revenues are typically earned from fees, fines, licenses, permits, and other charges collected by the government for providing specific services or for the use of government-owned resources.

### Capital Receipts

Capital receipts refer to the funds received by the government from non-recurring sources, primarily from the sale of assets or borrowings. These receipts are different from revenue receipts, which are the regular and recurring income generated by the government through taxation, fees, and other sources.

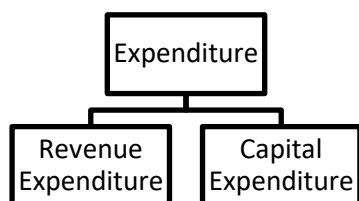
Capital receipts can be further classified into two categories: debt capital receipts and non-debt capital receipts.

- **Debt capital receipts** refer to the funds received by the government through borrowings, both from domestic and external sources. These borrowings can be in the form of long-term loans, bonds, or other securities issued by the government. The repayment of these borrowings is usually spread over a longer period, and the government is required to pay interest on the amount borrowed.
- **Non-debt capital receipts**, on the other hand, refer to the funds received by the government from the sale of assets, such as land, buildings, and other properties, and from the recovery of loans granted by the government to various entities. These receipts are not associated with any repayment obligations, and they do not require the government to pay interest.

Receipts					
Revenue Receipts			Capital Receipts		
Tax Revenue		Non-tax Revenue	Debt Capital Receipts		Non-debt Capital Receipts
<b>Direct Tax</b>	<b>Indirect Tax</b>	Profits from PSUs Profit from Economic Services – Railways, Post Offices	Domestic	External	Sale of Assets- land, buildings Recovery of loans Disinvestment proceeds
Income Tax, Corporate Tax	GST, Custom Duties, Excise Duties	Profit from Social Services- Govt Hospital, Govt School Fees & Fines- VISA service, Challan Gifts, Grants, Donations Escheat- Benami Property			

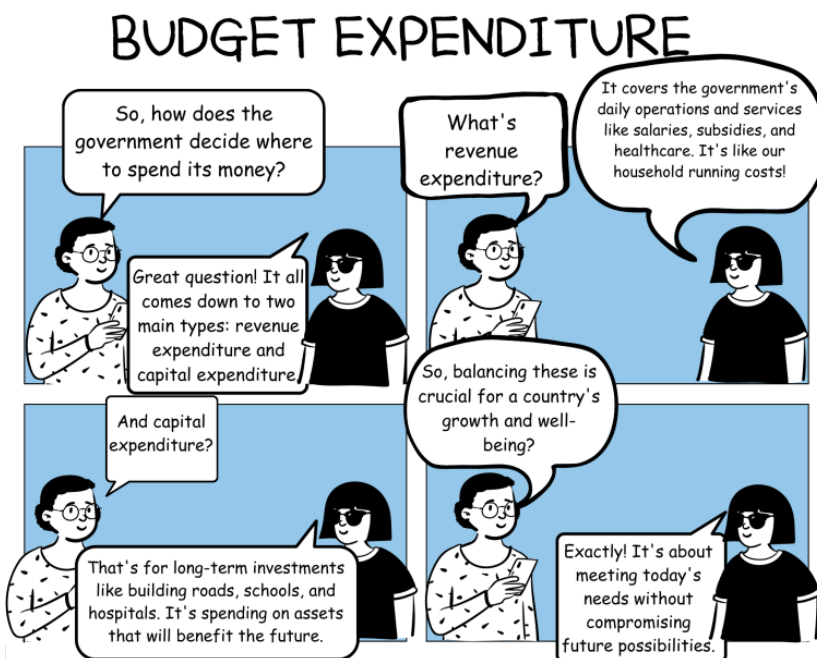
## Expenditure

Expenditure refers to the funds spent by the government on various programs, services, and activities to achieve its policy goals. Government expenditure can be classified into two categories: revenue expenditure and capital expenditure.



**Revenue expenditure** refers to the regular and recurring expenses incurred by the government in providing public services and welfare programs, such as salaries of government employees, maintenance and operating costs of government offices and facilities, and social welfare programs like healthcare and education.

**Capital expenditure**, on the other hand, refers to the expenses incurred by the government on long-term investments, such as infrastructure development, construction of public facilities, and other capital assets.



Expenditure	
Revenue Expenditure	Capital Expenditure
Interest Payments Subsidies Defense Civil Administration- eg. Police Expenditure on General Administration Salary & Pensions Gifts, Grants Social Services	Loans & Advances Purchase of Assets Expenditure on Infrastructure- Roads, Airports etc Repayment of Loans

## Type of Budget

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Based on the difference between Receipts and Expenditure,

**Balance Budget:** A balance budget is a type of budget where the total estimated receipts is equal to the total estimated expenditure. This means that the government does not plan to borrow any money to finance its expenditure.

**Surplus Budget:** A surplus budget is a type of budget where the total estimated receipts is higher than the total estimated expenditure. This means that the government plans to save money or use the surplus to pay off debts.

**Deficit Budget:** A deficit budget is a type of budget where the total estimated expenditure is higher than the total estimated receipts. This means that the government plans to borrow money to finance its expenditure.

## Other types of Budget

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**Performance Budget:** A performance budget is a type of budget where the allocation of funds is based on the performance and outcomes of government programs and services. This type of budget emphasizes the achievement of specific objectives and outcomes rather than simply providing funds for a specific program or department.

**Zero-based Budget:** A zero-based budget is a type of budget where each program or department's budget starts from zero and must justify its entire budgetary needs each year. This approach requires all expenditures to be justified and evaluated based on their cost-effectiveness and contribution to achieving government goals.

**Incremental Budget:** An incremental budget is a type of budget where the previous year's budget is used as a base, and adjustments are made to reflect changes in economic conditions and policy priorities. This approach is often criticized for failing to consider the effectiveness of existing programs and services.

**Gender Budget-** Gender Budget process involves analyzing the budget through a gender lens, to identify how budget allocations and expenditures affect men and women differently. This analysis can reveal areas where women are disadvantaged or discriminated against, and where changes in budget allocation and expenditure can promote gender equality and empower women.

The Gender Budget can be integrated into the overall budgetary process of the government, from planning and formulation to implementation and evaluation. This approach helps to ensure that gender considerations are incorporated into all stages of the budget process, and that budgetary policies and decisions promote gender equality and women's empowerment.

The Gender Budget has several benefits, including:

1. **Promoting gender equality:** by identifying areas where budget allocation and expenditure can promote women's empowerment and address gender-based inequalities.
2. **Improving budget transparency and accountability:** by identifying how budgetary policies and decisions affect men and women differently.
3. **Enhancing policy effectiveness:** in promoting gender equality and women's empowerment.
4. **Fostering public participation:** by engaging civil society organizations and women's groups in the budget process.

## Outcome Budget

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An Outcome Budget is a type of budget that emphasizes the outcomes or results of government programs and services rather than just the inputs and outputs. Unlike traditional budgets that focus on inputs such as budgetary allocations and outputs such as the number of services delivered, the Outcome Budget focuses on the impact of government programs and services on the lives of citizens.

The Outcome Budget involves several steps:

1. **Identifying outcomes:** The first step is to identify the outcomes or results that government programs and services are expected to achieve. These outcomes should be measurable, specific, and aligned with the government's policy priorities and objectives.
2. **Allocating resources:** The second step is to allocate resources based on the desired outcomes rather than just the inputs and outputs. The budgetary allocations should be linked to the expected outcomes, and the resources should be allocated in a way that maximizes the impact on the desired outcomes.
3. **Monitoring and evaluation:** The third step is to monitor and evaluate the performance of government programs and services based on the expected outcomes. This involves measuring the impact of the programs and services on the desired outcomes and making adjustments as needed to improve their effectiveness and efficiency.

The Outcome Budget has several benefits, including:

1. **Enhancing accountability:** by measuring the impact of government programs and services on the desired outcomes and holding government officials accountable for achieving these outcomes.
2. **Improving transparency:** by providing citizens with information on the impact of government programs and services on their lives.
3. **Promoting efficiency:** by ensuring that resources are allocated in a way that maximizes their impact on the desired outcomes.
4. **Fostering innovation:** by encouraging government officials to think creatively and develop new and more effective ways of achieving the desired outcomes.

## Types of Funds

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There are three types of funds:

### Consolidated Fund of India (Article 266(1))

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The Consolidated Fund of India (CFI) is the primary fund of the Government of India used to meet the expenses of the government, except for exceptional items. The sources of funds for the CFI include all the Budget receipts like revenue receipts, borrowings, and recoveries of loans. A vote of parliament is required for any expenditure made from the CFI, except for expenditure that is 'charged' on the CFI, which is non-votable. The CFI is used for two types of expenditure:

1. **Expenditure 'charged' on the CFI-** This refers to those expenses that are required to be made by law, such as the salary of the President, judges of the Supreme Court and High Courts, and other expenses relating to the constitutional provisions.



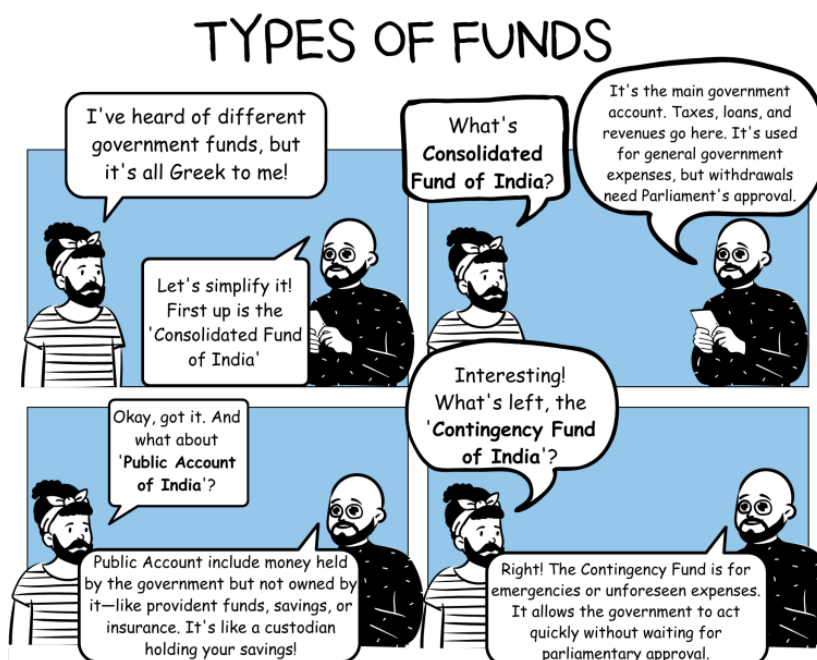
2. **Expenditure 'made' from the CFI-** This refers to those expenses that are approved by parliament every year in the form of the Union Budget.

## Public Account of India (Article 266(2))

The Public Account of India accounts for flows of those transactions where the Government is merely acting as a banker. These funds do not belong to the Government and have to be paid back in some time to their rightful owners. The sources of funds for the Public Account of India include provident funds and small savings. No vote of parliament is required for any expenditure made from the Public Account of India.

## Contingency Fund of India (Article 267(1))

The Contingency Fund of India is established to provide a source of funds to meet urgent and unforeseen expenditures of the government. The fund is placed at the disposal of the Union Government, in the name of the President. The sources of funds for the Contingency Fund of India include parliament grants and recoveries of loans. No vote of parliament is required for any expenditure made from the Contingency Fund of India, and the maximum amount that can be kept in this fund is INR 30,000 crore. The amount spent from this fund is later replenished by the approval of the Parliament.



## Type of Deficits

### Revenue Deficit

$$\text{Revenue Deficit} = \text{Revenue Expenditure} - \text{Revenue Receipts}$$

In other words, the revenue deficit is the difference between the government's regular revenue (such as tax collections) and its regular expenditure, excluding capital expenditures.

### Fiscal Deficit

Fiscal deficit is a measure of the total borrowing requirements of the government.

$$\text{Total Expenditure} - \text{Total Receipts (excluding borrowings)}$$

To finance the fiscal deficit, the government may resort to borrowing from the market through the sale of government securities such as bonds and treasury bills. However, excessive borrowing can lead to a rise in interest rates and crowd out private sector investment.

## Primary Deficit

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Primary deficit is a measure of the government's deficit that excludes interest payments on past borrowing.

### **Primary Deficit = Fiscal Deficit - Interest Payments**

The primary deficit is an essential indicator of the government's ability to meet its current obligations without relying on past borrowing. It is also an important measure of the government's ability to control its finances and reduce its debt burden in the long term.

## Effective Revenue Deficit

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Effective revenue deficit is a measure of the government's deficit that takes into account the revenue expenditure that does not result in the creation of assets or increase in the productivity of the economy.

### **Effective Revenue Deficit = Revenue Deficit - Grants for Creation of Capital Assets**

The effective revenue deficit is an important measure of the government's ability to manage its finances efficiently and prioritize spending on activities that promote long-term economic growth. Revenue expenditures that do not result in asset creation or increase in productivity are often viewed as unproductive, and a high effective revenue deficit may indicate inefficiencies in government spending.

## Budget Deficit

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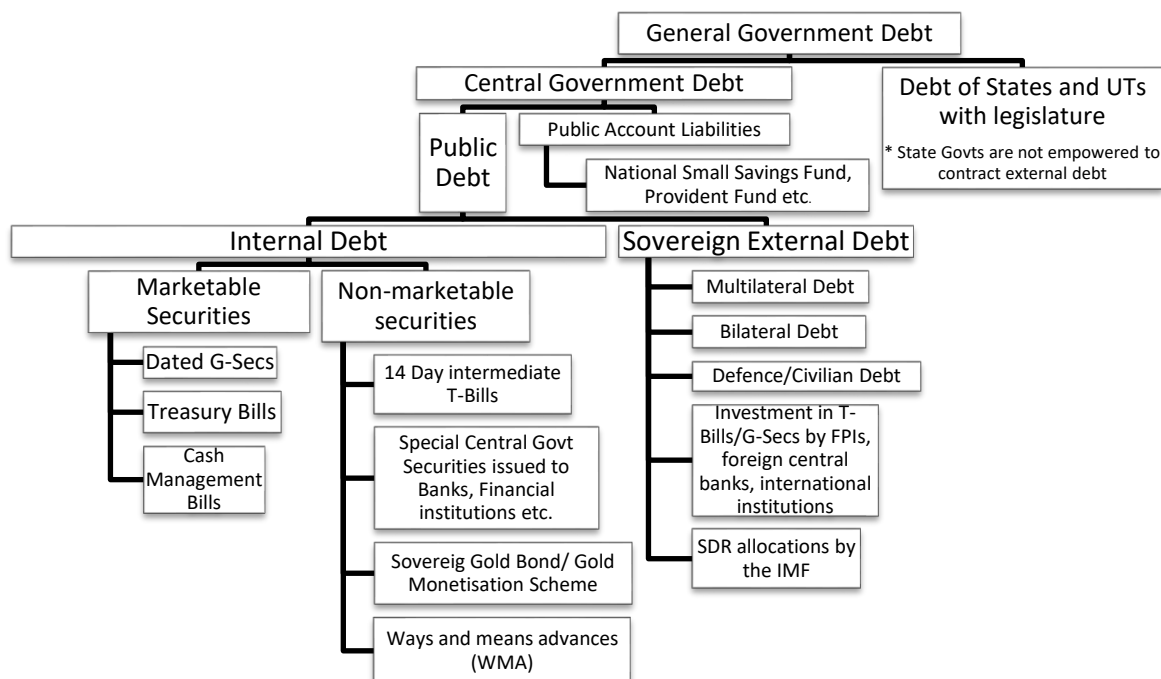
The budget deficit is the difference between total government expenditure and total receipts.

### **Budget Deficit (BD) = Total Expenditure – Total Receipts**

When there is a deficit, the government has to finance it through various means such as **deficit financing**. In the past, the government used ad-hoc treasury bills with a maturity period of 91 days to finance the deficit. However, if the government did not return the money, the Reserve Bank of India (RBI) would resort to currency printing until 1997.

Currently, the RBI provides ways and means advances (WMA) to the government to finance the deficit. The WMA is a temporary loan that the RBI provides to the government for a specific period, and the government must return the money within the same year. If the government cannot return the money, it will have to pay a higher rate of interest in the next financial year and borrow less. This mechanism eliminates the need for the government to print currency to finance the deficit.

## Government Debt



**General Government Debt**- Total liabilities of the government, including central, state, and UT debts. It excludes inter-governmental liabilities.

**Central Government Debt**- Debt specifically incurred by the central government.

**Debt of States and UTs with Legislature**-

**Public Debt**- Liabilities contracted against the Consolidated Fund of India

**Public Account Liabilities**- Liabilities in the public account of India

Debt incurred by state governments and Union Territories with legislatures, including market borrowings and loans from the central government.

**Internal Debt**- Debt borrowed within the country.

**Sovereign External Debt**- Debt borrowed from foreign creditors.

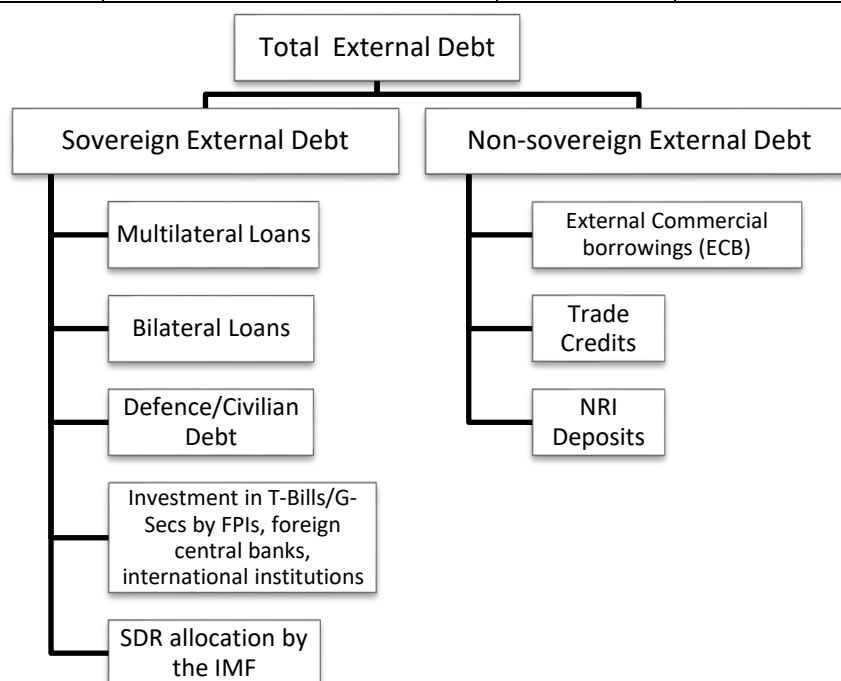
**Marketable Securities**- Debt instruments that can be traded in the market.

**Non-marketable Securities**- Debt instruments that cannot be traded in the market.

- **Dated Government Securities (G-Secs)**- Long-term government bonds.
- **Treasury Bills (T-Bills)**- Short-term government securities issued for less than a year
- **Cash Management Bills (CMBs)**- Short-

- **14-Day Intermediate Treasury Bills**- Short-term treasury bills issued for liquidity management, with a 14-day maturity.
- **Special Central Government Securities**- Securities issued to specific entities like banks, financial institutions etc.
- **Sovereign Gold Bond/Gold**

term bills issued to manage temporary cash flow mismatches, with maturities less than 91 days.	<p><b>Monetisation Scheme-</b> Bonds and schemes to encourage gold investment and monetization among citizens.</p> <ul style="list-style-type: none"> <li>• <b>Ways and Means Advances (WMA)</b>- Temporary advances by the Reserve Bank of India to meet short-term liquidity needs.</li> </ul>			
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<b>Total External Debt-</b> The total amount of debt that a country owes to foreign creditors.	
<b>Sovereign External Debt-</b> Debt borrowed by the government from foreign sources.	<b>Non-sovereign External Debt-</b> Debt borrowed by non-government entities from foreign sources.
<ul style="list-style-type: none"> <li>• <b>Multilateral Loans-</b> Loans received from multilateral organizations like the World Bank, IMF, ADB, etc.</li> <li>• <b>Bilateral Loans-</b> Loans received from foreign governments.</li> <li>• <b>Defence/Civilian Debt-</b> Debt incurred for defense purposes and other civilian procurements.</li> <li>• <b>Investment in T-Bills/G-Secs</b> by FPIs, Foreign Central Banks and International Institutions</li> <li>• <b>Special Drawing Rights</b> allocated to India by the International Monetary</li> </ul>	<ul style="list-style-type: none"> <li>• <b>External Commercial Borrowings (ECB)-</b> Loans and credit facilities extended to private sector companies by foreign commercial banks and other financial institutions.</li> <li>• <b>Trade Credits-</b> Credit extended by foreign agencies/banks for the import of goods and services.</li> <li>• <b>NRI Deposits-</b> Deposits made by Non-Resident Indians (NRIs) in Indian banks.</li> </ul>

Fund.	
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## Debt to GDP Ratio

Debt-to-GDP ratio is a measure of a country's debt in relation to its economic output. It is calculated by dividing the total debt of a country by its gross domestic product (GDP) and expressing the result as a percentage.

The debt-to-GDP ratio is an important indicator for assessing a country's economic health and its ability to manage its debt. It is commonly used by policymakers, investors, and credit rating agencies to evaluate a country's creditworthiness and economic stability.

A high debt-to-GDP ratio can have several negative effects on a country's economy, such as higher interest payments on debt, lower investor confidence, and reduced government spending on social programs and public services. However, in certain cases, such as during times of economic crisis or war, governments may need to increase their debt levels to finance necessary programs and initiatives.

As per Fiscal Responsibility and Budget Management Act (FRMB Act) following target for Debt to GDP Ratio is set:

- Central Government Debt to GDP to 40%
- General Government Debt to GDP to 60%.

## Public Expenditure Management

Public Expenditure Management refers to the prudent and efficient use of government financial resources to achieve good governance. It aims to promote:

- **Aggregate fiscal discipline:** Aligning public expenditures with total revenues to maintain fiscal sustainability.
- **Allocative efficiency:** Allocating resources to programs aligned with strategic priorities.
- **Operational efficiency:** Providing public services at a reasonable quality and cost.

## Challenges in India's Public Expenditure Management

1. **Fiscal deficit:** Balancing increased government spending demands with fiscal discipline.
2. **Subsidy burden:** Managing the growing burden of subsidies, such as fertilizer and welfare subsidies.
3. **Banking sector issues:** Addressing challenges like the Twin-Balance sheet crisis and non-performing assets.
4. **Public Sector Enterprises (PSEs):** Dealing with loss-making PSEs and considering disinvestment or privatization.
5. **Populist schemes:** Managing fiscal deficit implications of schemes like farm loan waivers and higher MSPs.
6. **Low tax base and tax-to-GDP ratio:** Expanding the tax base and improving tax revenue collection.
7. **Operational inefficiencies:** Overcoming bureaucratic inefficiencies and enhancing transparency and accountability.

## Steps taken by the government to address the challenges

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### Fiscal reforms:

- Fiscal Responsibility and Budget Management (FRBM) Act: Setting targets for fiscal deficit reduction.
- Outcome-based budgeting: Aligning budgetary allocations with strategic priorities and desired outcomes.

### Technology adoption:

- Public Fund Management System: Online platform for monitoring government scheme progress.
- Digital platforms: Enhancing transparency, accountability, and operational efficiency.

### Capacity building:

- Investing in the training and development of government officials and implementing agencies.

### Subsidy rationalization:

- Reviewing and rationalizing subsidies to allocate resources efficiently.

### Governance strengthening:

- Anti-corruption measures: Enhancing governance frameworks and curbing corruption.
- Institutional mechanisms: Strengthening institutions responsible for public expenditure management.

### Deepening fiscal federalism:

- Devolving more tax revenue to states from the divisible tax pool.

### Public Debt Management Agency (proposed):

- Managing internal and external debts of the government effectively.

## Fiscal Responsibility and Budget Management (FRBM) Act

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The Fiscal Responsibility and Budget Management (FRBM) Act, 2003 aims to ensure fiscal discipline for the Centre by setting targets for fiscal indicators, such as the fiscal deficit, revenue deficit, and the debt-to-GDP ratio. The act was introduced by the Indian government to address the problem of high fiscal deficit and rising public debt.

The key objectives of the FRBM Act are:

1. To achieve fiscal consolidation by bringing down the fiscal deficit and revenue deficit to sustainable levels.
2. To bring down the debt-to-GDP ratio to a manageable level.
3. To promote inter-generational equity by ensuring that the government does not burden future generations with excessive debt.

The targets are set for a period of five years, with annual targets to be achieved in each year.

The FRBM Act requires the government to place a Medium-Term Fiscal Policy Statement before Parliament every year. The statement outlines the fiscal policy of the government for the next three years, including the targets set for the fiscal deficit, revenue deficit, and the debt-to-GDP ratio.

The FRBM Act also provides for the establishment of a Fiscal Responsibility and Budget Management (FRBM) Committee. The committee is responsible for reviewing the government's fiscal performance and making recommendations for fiscal consolidation.

## Fiscal Policy

Fiscal policy refers to the government's approach to influencing economic conditions through changes in spending and taxation.

### Types of Fiscal Policy

Fiscal policy can be broadly categorized into two types:

**Expansionary Fiscal Policy:** This approach is used when the government aims to stimulate the economy. It involves increasing government spending, decreasing taxes, or a combination of both. Expansionary policy is typically used during periods of economic downturn or recession to foster increased economic activity and reduce unemployment.

**Contractionary Fiscal Policy:** This type of policy is utilized when the government seeks to slow down an overheated economy. It involves decreasing government spending, increasing taxes, or both. Contractionary policy helps to cool down inflationary pressures and stabilize economic growth when it is excessively high.

### Effect of Expansionary Fiscal Policy

Category	Action/Effect	Explanation
<b>Problem</b>	Economic downturn with decreased GDP and increased unemployment. (Recession)	Downturn signals a contraction in economic activity, necessitating government intervention.
<b>Goal for Aggregate Demand</b>	Increase	Increasing demand can help kickstart economic recovery and lower unemployment rates.
<b>Policy</b>	Expansionary fiscal policy	Designed to increase money flow in the economy.
<b>Tools</b>	Increase government spending	Directly boosts economic activity by increasing government purchases and investments.
	Decrease taxes	Increases disposable income, enabling higher consumer and business spending.
<b>Aggregate Demand</b>	Increase	Money is injected into the economy/ More money in consumers' hands
<b>GDP</b>	Increase	More spending and investment lead to increased production and services, growing the GDP.
<b>Price Level</b>	Higher	Increased demand can lead to higher prices if supply doesn't keep up.
<b>Inflation</b>	Increase	Increase in prices levels due to greater demand and spending.
<b>Unemployment</b>	Decrease	New jobs arise from increased production and services

		needed to meet the boosted demand.
<b>Budget Deficit/Surplus</b>	Deficit	Higher government spending and lower tax revenue, widening the deficit.
<b>National Debt</b>	Increase	Increased borrowing to cover deficits adds to the national debt.
<b>Loanable Funds</b>	Demand for funds- Increase Supply of funds- Decrease because Govt will drain the funds	Increased government borrowing can reduce the availability of loans for the private sector.
<b>Money Market</b>	Higher demand for money due to increased borrowing by Govt	This will affect the Interest Rates
<b>Interest Rate</b>	Increase	High demand for funds and low supply of funds will drive up the Interest Rate.
<b>Private Investment</b>	Decrease	Less availability of funds for Private Sector will lead to <b>Crowding Out</b> .
<b>Foreign Exchange Market</b>	Demand for Rupees will increase	High Interest Rates becomes lucrative investment for Foreign Investors.
<b>Exchange Rate</b>	Rupee will appreciate	Because of high demand for Rupees
<b>Net Exports</b>	Decrease	Appreciation of Rupees makes our products more expensive. So exports will decrease.
<b>Benefits of Expansionary Policy</b>		GDP will increase Unemployment will go decrease
<b>Side Effects of Expansionary Policy</b>		Inflation Crowding Out Net Exports will decrease

### Effect of Contractionary Fiscal Policy

Category	Action/Effect	Explanation
<b>Problem</b>	High inflation/ Fiscal Deficit	High inflation erodes purchasing power and can destabilize the economy
<b>Goal for Aggregate Demand</b>	Decrease	Reducing demand can help cool down the economy and control inflation
<b>Policy</b>	Contractionary Fiscal Policy	Aimed at reducing the money supply.
<b>Tools</b>	Decrease government spending	Reduces government's direct economic impact by lowering expenditures.
	Increase taxes	Decreases disposable income for consumers and businesses.
<b>Aggregate Demand</b>	Decrease	Reduced money supply in the economy/Less money in consumers' hands
<b>GDP</b>	Decrease	Lower spending and investment might reduce GDP



		growth or even shrink GDP
<b>Price Level</b>	Lower	Less demand leads to stabilized or reduced prices
<b>Inflation</b>	Decrease	Decrease in price levels due to less demand and spending.
<b>Unemployment</b>	Increase	Reduced economic activity can lead to higher unemployment rates.
<b>Budget Deficit/Surplus</b>	Surplus	Less Govt Expenditure and higher tax revenue may lead to surplus
<b>National Debt</b>	Decrease	Reduced need for borrowing could slow the growth of or reduce national debt.
<b>Loanable Funds</b>	Decrease in government borrowing	More funds available for private sector borrowing
<b>Money Market</b>	Lower demand for money due to reduced borrowing by Govt.	Could lead to lower interest rates.
<b>Interest Rate</b>	Decrease	Low demand for funds due to decreased Govt borrowing
<b>Private Investment</b>	Increase	Availability of funds at lower Interest Rates will lead to <b>Crowding In</b> .
<b>Foreign Exchange Market</b>	Demand for Rupees will decrease	Low Interest Rates will not attract Foreign Investors
<b>Exchange Rate</b>	Rupee will depreciate	Because of low demand for Rupees.
<b>Net Exports</b>	Increase	Depreciation of Rupees makes our products more competitive in International market. So Exports will rise.
<b>Benefits of Expansionary Policy</b>		Inflation will decrease Budget Deficit will decrease
<b>Side Effects of Expansionary Policy</b>		Unemployment will rise Crowding In Net Exports will increase

## Additional Terms and Concepts

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### *Debt Monetization*

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Debt monetization is the process by which a government finances its budget deficit by borrowing money from the central bank, which then prints new money to buy government bonds. This can increase the money supply and potentially lead to inflation if not managed properly.

Example: The Government of India needs funds to build new infrastructure but does not want to raise taxes or cut spending. Instead, it issues government bonds, which the RBI buys by creating new money. The RBI essentially prints new Rupees to purchase these bonds. While this provides the government with the necessary funds, it also increases the money supply, which could lead to inflation if not controlled carefully.

### *Automatic Stabilizers*

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Automatic stabilizers are economic policies and programs that automatically adjust to counteract economic fluctuations without additional government action. They help stabilize the economy by increasing spending or reducing taxes when the economy slows down, and by reducing spending or increasing taxes when the economy grows too fast.

Examples:

- **Unemployment Benefits:** In India, unemployment benefits act as an automatic stabilizer. When the economy slows down and more people lose their jobs, they automatically receive unemployment benefits, which helps maintain their income and spending levels. This increased government spending supports the economy during a downturn.
- **Taxes:** Another example of an automatic stabilizer is the progressive income tax system. In India, as people's incomes rise during an economic boom, they move into higher tax brackets and pay a larger percentage of their income in taxes. This increase in tax revenue helps to cool down the economy by reducing disposable income and spending. Conversely, during a recession, people's incomes fall, they move into lower tax brackets, and they pay less in taxes, leaving them with more disposable income to spend, which helps stimulate the economy.

### *Crowding Out*

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Crowding out occurs when government borrowing and spending lead to higher interest rates, which can reduce private investment. This happens because the government competes with the private sector for available funds in the financial markets.

Example: If the Indian government borrows heavily to fund a large infrastructure project, it might drive up interest rates because it is taking up a large share of the available funds. As a result, businesses might find it more expensive to borrow money for their own investments, leading to a reduction in private sector investment.

### *Crowding In*

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Crowding in occurs when government spending leads to an increase in private sector investment. This can happen if government spending creates favorable conditions for businesses, such as improved infrastructure or increased demand for goods and services.

Example: Suppose the Indian government invests heavily in building new highways and improving transportation infrastructure. This can lead to increased private investment because businesses see new opportunities to expand and reach new markets, boosting overall economic activity.

## *Fiscal Consolidation*

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Fiscal consolidation refers to policies aimed at reducing government deficits and debt accumulation. This typically involves increasing revenues through taxes and reducing government spending to achieve a more balanced budget.

Example: The Indian government implement fiscal consolidation by cutting unnecessary expenditures, streamlining public services, and increasing taxes on higher income groups. The goal is to reduce the fiscal deficit and ensure long-term economic stability.

## *Merit Goods*

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Merit goods are goods and services that the government believes are beneficial for people and should be provided or subsidized to encourage their consumption. These goods often have positive externalities, meaning they benefit society as a whole.

Example: Education is considered a merit good. The Indian government provides free or subsidized education because educated individuals contribute positively to society by being more productive, healthier, and more engaged citizens.

## *Fiscal Stimulus Package*

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A fiscal stimulus package is a set of government measures aimed at boosting economic activity during a downturn. It usually involves increased government spending, tax cuts, or a combination of both to stimulate demand and create jobs.

Example: During the COVID-19 pandemic, the Indian government announced a fiscal stimulus package that included direct cash transfers to the poor, credit support for small businesses, and increased spending on healthcare and infrastructure. The goal was to support individuals and businesses, boost economic activity, and mitigate the impact of the pandemic on the economy.

## *Green Budgeting*

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Green budgeting is the practice of designing and implementing fiscal policies that promote environmental sustainability. It involves allocating government spending and revenue generation in ways that support environmental goals, such as reducing carbon emissions and conserving natural resources.

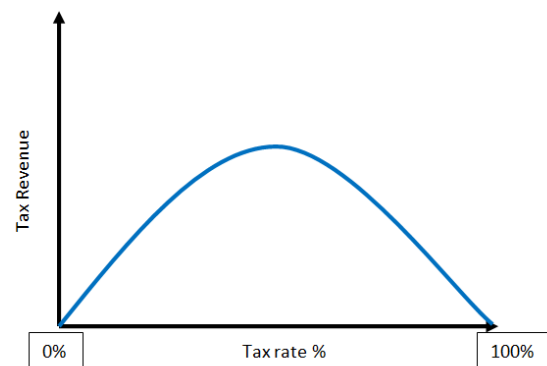
Example: The Indian government allocates a portion of its budget to fund renewable energy projects, such as solar and wind power plants. It also provides subsidies for electric vehicles and imposes higher taxes on polluting industries. These measures are part of green budgeting, aimed at promoting a cleaner and more sustainable economy.

## *Laffer Curve*

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The Laffer Curve illustrates the relationship between tax rates and tax revenue. It shows that there is an optimal tax rate that maximizes revenue. If tax rates are too low or too high, tax revenue will be lower.

Example: Suppose the Indian government increases the tax rate on income from 20% to 90%. Initially, tax revenue increases, but beyond a certain point, higher tax rates discourage people from working or encourage tax evasion, leading to a decrease in tax revenue. The Laffer Curve suggests there is an optimal tax rate, say



40%, where tax revenue is maximized.

### *Pigovian Tax*

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A Pigovian tax is a tax imposed on activities that generate negative externalities, such as pollution, to correct market outcomes. The tax is intended to make the cost of the negative externalities reflect in the price of the good or service, thereby reducing harmful activities.

Example: The Indian government imposes a carbon tax on companies that emit greenhouse gases. This Pigovian tax makes it more expensive for companies to pollute, encouraging them to invest in cleaner technologies and reduce their carbon footprint.

### *Countercyclical Fiscal Policy*

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Countercyclical fiscal policy involves increasing government spending and reducing taxes during economic downturns, and decreasing spending and increasing taxes during economic booms. This helps stabilize the economy by smoothing out the business cycle.

Example: During an economic recession, the Indian government increases public spending on infrastructure projects and reduces income taxes to stimulate demand and create jobs. When the economy is booming, the government reduces spending and increases taxes to prevent overheating and control inflation.

### *Golden Rule of Public Finance*

---

The golden rule of public finance states that government borrowing should only be used to finance investment projects that will benefit future generations, such as infrastructure, education, and research and development. Current expenditures, like salaries and pensions, should be covered by current revenues.

Example: The Indian government borrows money to build a new high-speed railway network, which will provide long-term economic benefits and improve connectivity. However, it ensures that day-to-day expenses, like administrative costs and social welfare payments, are funded through tax revenues and not through borrowing.

### *Fiscal Drag*

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Fiscal drag occurs when inflation and income growth push taxpayers into higher income tax brackets, increasing their tax burden without an actual increase in real income. This can slow down economic growth by reducing disposable income.

Example: An employee in India receives a salary increase due to inflation, but the increase pushes them into a higher tax bracket. As a result, they pay a higher percentage of their income in taxes, leaving them with less disposable income. This reduction in purchasing power can slow down consumer spending and economic growth.

## Previous Years Prelims Questions

1.	<p>With reference to the Indian economy, consider the following statements:</p> <ol style="list-style-type: none"> <li>1. A share of the household financial savings goes towards government borrowings.</li> <li>2. Dated securities issued at market-related rates in auctions form a large component of internal debt.</li> </ol> <p>Which of the above statements is/are correct?</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	2022
2.	<p>Which among the following steps is most likely to be taken at the time of an economic recession?</p> <ol style="list-style-type: none"> <li>a) Cut in tax rates accompanied by increase in interest rate</li> <li>b) Increase in expenditure on public projects</li> <li>c) Increase in tax rates accompanied by reduction of interest rate</li> <li>d) Reduction of expenditure on public projects</li> </ol>	2021
3.	<p>Consider the following statements</p> <ol style="list-style-type: none"> <li>(1) The Fiscal Responsibility and Budget Management (FRBM) Review Committee Report has recommended a debt to GDP ratio of 60% for the general (combined) government by 2023, comprising 40% for the Central Government and 20% for the State Governments.</li> <li>(2) The Central Government has domestic liabilities of 21% of GDP as compared to that of 49% of GDP of the State Governments.</li> <li>(3) As per the Constitution of India, it is mandatory for a State to take the Central Government's consent for raising any loan if the former owes any outstanding liabilities to the latter.</li> </ol> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3</p>	2018
4.	<p>There has been a persistent deficit budget year after year. Which action/actions of the following can be taken by the Government to reduce the deficit?</p> <p>(1) Reducing revenue expenditure</p>	2016

	<p>(2) Introducing new welfare schemes  (3) Rationalizing subsidies  (4) Reducing import duty</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only  (b) 2 and 3 only  (c) 1 and 3 only  (d) 1, 2, 3 and 4</p>	
5.	<p>Which of the following is/are included in the capital budget of the Government of India?</p> <p>(1) Expenditure on acquisition of assets like roads, buildings, machinery, etc.  (2) Loans received from foreign governments  (3) Loans and advances granted to the States and Union Territories</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only  (b) 2 and 3 only  (c) 1 and 3 only  (d) 1, 2 and 3</p>	2016
6.	<p>There has been a persistent deficit budget year after year. Which of the following actions can be taken by the government to reduce the deficit?</p> <p>(1) Reducing revenue expenditure  (2) Introducing new welfare schemes  (3) Rationalizing subsidies  (4) Expanding industries</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 and 3 only  (b) 2 and 3 only  (c) 1 only  (d) 1, 2, 3 and 4</p>	2015
7.	<p>With reference to Union Budget, which of the following is/are covered under Non-Plan Expenditure?</p> <p>(1) Defence expenditure  (2) Interest payments  (3) Salaries and pensions  (4) Subsidies</p>	2014

	<p>Select the correct answer using the code given below.</p> <p>(a) 1 only (b) 2 and 3 only (c) 1, 2, 3 and 4 (d) None</p>	
8.	<p>In India, deficit financing is used for raising resources for</p> <p>(a) economic development (b) redemption of public debt (c) adjusting the balance of payments (d) reducing the foreign debt</p>	2013

### Previous Years Mains Questions

1.	Distinguish between Capital Budget and Revenue Budget. Explain the components of both these Budgets.	2021
2.	The public expenditure management is a challenge to the Government of India in the context of budget-making during the post-liberalization period. Clarify it.	2019
3.	One of the intended objectives of Union Budget 2017-18 is to 'transform, energize and clean India'. Analyse the measures proposed in the Budget 2017-18 to achieve the objective.	2017
4.	Women empowerment in India needs gender budgeting. What are the requirements and status of gender budgeting in the Indian context?	2016
5.	What were the reasons for the introduction of Fiscal Responsibility and Budget Management (FRBM) Act, 2013? Discuss critically its salient features and their effectiveness.	2013

### Answers

1.	C	2.	B
3.	C	4.	C
5.	D	6.	A
7.	Plan/Non-plan Expenditure distinction does not exist after abolition of Planning Commission	8.	A





# 10

**CHAPTER**

TAXATION



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# Chapter 10

## Taxation

Taxation plays a crucial role in generating government revenue and shaping economic policies. In essence, taxation involves the collection of mandatory payments from individuals and businesses, which are then used to fund public goods and services such as education, healthcare, defense, and infrastructure.

### Classification of Taxes

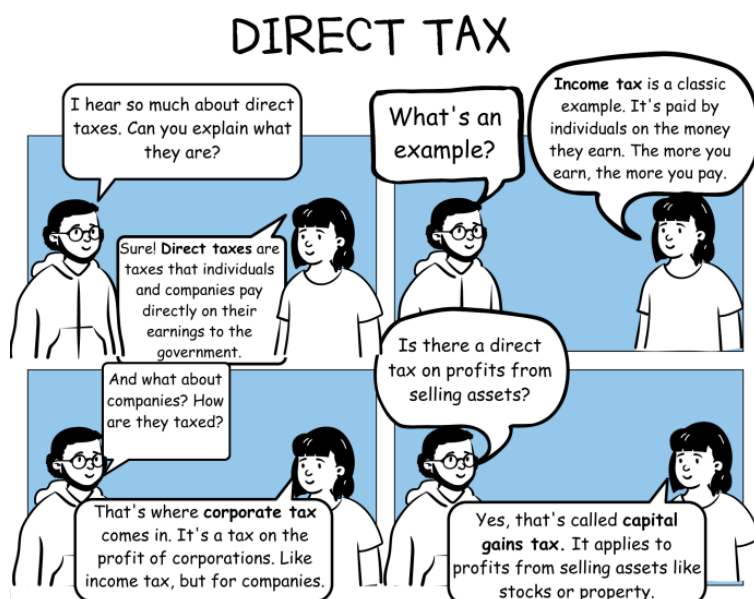
One way to classify taxes is based on their fairness or equity. This means that taxes are designed to ensure that individuals and businesses contribute to the government's revenue in a way that is fair and just.

1. **Progressive taxes:** These are taxes that increase as income increases. This means that those with higher incomes pay a higher percentage of their income in taxes. This is considered to be fair because those who can afford to pay more, contribute more to society. For example, in India, the income tax system is progressive, with higher earners paying a higher percentage of their income in taxes.
2. **Regressive taxes:** These are taxes that decrease as income increases. This means that those with lower incomes pay a higher percentage of their income in taxes. This is considered to be unfair because it places a greater burden on those who can least afford it. For example, GST on basic necessities such as food and clothing is regressive because it takes up a larger proportion of the income of low-income individuals.
3. **Proportional taxes:** These are taxes that remain the same, regardless of income. This means that everyone pays the same percentage of their income in taxes. This is considered to be fair because everyone contributes an equal share to the government's revenue. For example, property tax in India is a proportional tax, where everyone who owns property pays the same percentage of its value in taxes.

### Direct and Indirect Tax

Taxes can be of two types based on who pays the taxes:

1. **Direct Taxes:** These are taxes that are directly imposed on individuals or entities and cannot be passed on to others. Some examples of direct



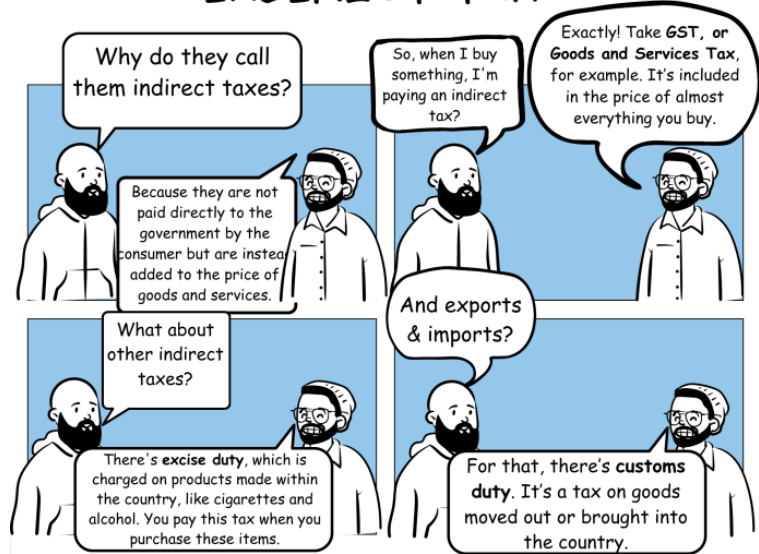
taxes in India are income tax, wealth tax, and capital gains tax.

For instance, if you are an individual earning a salary or income from other sources, you are required to pay income tax directly to the government. Similarly, if you are a company earning profits, you are required to pay corporate tax directly to the government.

2. **Indirect Taxes:** These are taxes that are collected by intermediaries and passed on to the end consumer. The burden of these taxes is ultimately borne by the final consumer, even though they are collected from intermediaries.

For example, goods and services tax (GST) is an indirect tax that is collected by businesses when they sell goods or services to consumers. The tax is embedded in the price of the goods or services, and the final consumer pays the tax when they purchase the goods or services.

## INDIRECT TAX



### Cess and Surcharge

**Cess** A cess is a type of tax levied on top of existing taxes and is utilized for a specific purpose. It acts as a tax on tax. These cesses are applicable to all taxpayers, and the revenue collected from them goes into the Consolidated Fund of India.

## CESS & SURCHARGE



Cess	Purpose	Rate
Swachh Bharat Cess	Cleanliness drive	0.5% on value of taxable services
Krishi Kalyan Cess	Agricultural initiatives	0.5% on value of taxable services
Health and Education Cess	Health and education initiatives	4% on income tax and corporation tax
Road and Infrastructure Cess	Development of roads and infrastructure	Varies based on specific goods or services
Cess on Crude Oil	Financing educational programs	Varies based on specific circumstances

**Surcharge** Surcharge is an additional tax imposed on individuals or entities with higher income levels. It is applied on top of the regular tax amount. The government utilizes surcharge to increase the tax burden on those with higher taxable income. One example is the surcharge on income tax, where individuals earning above a certain income threshold are subject to an additional tax rate. The surcharge rate varies based on the total income of the taxpayer and can range from 10% to 37%. Unlike cess, surcharge does not have a specific designated purpose. The revenue generated from surcharge goes into the Consolidated Fund of India and can be used for any government expenditure as deemed necessary.

Total Income of Taxpayer (in INR)	Surcharge Rate
Up to 50 lakhs	Nil
50 lakhs to 1 crore	10%
1 crore to 2 crores	15%
2 crores to 5 crores	25%
Above 5 crores	37%

## Taxation in India

The Indian **Constitution** lays down the framework for the country's taxation system. The Constitution divides the powers to tax between the central government, the state governments and the local authorities such as panchayats and municipalities.

Article	Provision	Explanation
Article 265	No taxation without authority	This article states that no tax can be levied or collected without the authority of law. This means that any tax that is levied must be authorized by a law passed by the Parliament or state legislature.
Article 246 (Schedule VII)	Distribution of legislative powers	This article sets out the powers of the central government and state governments with regard to taxation. The central government can levy taxes on subjects specified in List I (Union List), while the state governments can levy taxes on subjects specified in List II (State List). Both central government and state governments can make laws to levy taxes on subjects specified in List III (Concurrent List)
Article 246A(1)	Both Parliament and State Legislatures have the power to make laws with respect to GST.	This clause allows both the central and state governments to legislate on GST matters, reflecting a cooperative approach in the federal structure of India's governance.
Article 246A(2)	Parliament has exclusive power to legislate GST in inter-state trade or commerce.	This clause gives the central government sole authority to manage and govern GST matters that involve inter-state transactions, ensuring uniformity across states.

Article 279A	Goods and Services Tax (GST)	This article provides for the creation of a GST Council to oversee the implementation of the Goods and Services Tax (GST).
Article 275	Grants from the Union to the states	This article provides for grants from the central government to the states, to make up for any deficiency in the revenue of those states.
Article 243H	Powers, authority, and responsibilities of Panchayats	This article, introduced by the 73rd Amendment Act, provides for the power of Panchayats to levy, collect, and appropriate taxes, duties, tolls, and fees. The taxes that Panchayats can levy are subject to the limits prescribed by the state legislature.
Article 243X	Powers, authority, and responsibilities of Municipalities	This article, introduced by the 74th Amendment Act, provides for the power of Municipalities to levy, collect, and appropriate taxes, duties, tolls, and fees. The taxes that Municipalities can levy are subject to the limits prescribed by the state legislature.

To give you an example, let's say the central government wants to levy a tax on cigarettes. To do so, they would need to pass a law authorizing the tax, and the tax would need to fall under the subjects listed in List I of the Constitution. On the other hand, if a state government wanted to levy a tax on movie tickets, they would need to pass a law authorizing the tax, and the tax would need to fall under the subjects listed in List II of the Constitution.

Similarly, if a Panchayat wants to levy a tax on property within its jurisdiction, they would need to pass a law authorizing the tax, and the tax would need to fall within the limits prescribed by the state legislature. The same would apply to Municipalities that want to levy a tax.

## Direct Taxes in India

### Personal Income Tax

Personal income tax is a type of direct tax that is levied on the income earned by individuals. In India, the income tax is governed by the Income Tax Act, 1961. The income tax is a progressive tax, which means that the rate of tax increases with the increase in income.

Here's how personal income tax works in India. First, an individual needs to determine their taxable income. This includes income from various sources, such as salary, rental income, business income, and capital gains. **Certain** deductions and exemptions are allowed, such as deductions for contributions to certain savings schemes and exemptions for certain types of income.

Once the taxable income is determined, the income tax is calculated based on the tax rates and slabs specified by the government. The tax rates and slabs are revised from time to time in the Union Budget.

For the financial year 2023-24, the tax rates and slabs for individuals are as follows:

Income range	Tax rate
Up to Rs. 3 lakh	Nil
Rs. 3 lakh to Rs. 6 lakh	5%
Rs. 6 lakh to Rs. 9 lakh	10%



Rs. 9 lakh to Rs. 12 lakh	15%
Rs. 12 lakh to Rs. 15 lakh	20%
Above Rs. 15 lakh	30%

Let's say an individual has a taxable income of Rs. 8 lakh. The income tax they would need to pay can be calculated as follows:

Up to Rs. 3 lakh: Nil

Rs. 3 lakh to Rs. 6 lakh: 5% of Rs. 3 lakh = Rs. 15,000

Rs. 6 lakh to Rs. 8 lakh: 10% of Rs. 2 lakh = Rs. 20,000

Total tax liability = Rs. 15,000 + Rs. 20,000 = Rs. 35,000

## Corporate Tax

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Corporate tax is a type of direct tax in India that is levied on the profits earned by companies and corporations. It is a tax on the income or capital of businesses and is paid by companies registered under the Companies Act, 2013.

The current corporate tax rate in India is 25% for companies with a turnover of up to Rs. 400 crore and 30% for companies with a turnover above Rs. 400 crore. The government has reduced the corporate tax rate in recent years to boost economic growth and attract foreign investment.

Let's say a company has a turnover of Rs. 300 crore in the financial year 2020-21. It would be liable to pay corporate tax at a rate of 25% on its profits earned during that year. If the company had a profit of Rs. 50 crore in that year, it would have to pay Rs. 12.5 crore as corporate tax (25% of Rs. 50 crore).

## Minimum Alternate Tax

---

The Minimum Alternate Tax (MAT) is a type of direct tax that is levied on companies that are otherwise exempt from paying corporate tax. MAT was introduced in India in 1987 as a way to ensure that all companies, including those that might be eligible for various tax exemptions and deductions, pay a minimum amount of tax to the government.

Here's how MAT works: if a company's tax liability, calculated under the normal provisions of the Income Tax Act, is lower than a certain percentage of its book profit, then the company is required to pay tax at the higher of the two rates. Currently, the rate of MAT is 15% of the book profit.

To give you an example, let's say a company has a book profit of Rs. 1 crore, but due to various deductions and exemptions, their taxable income is only Rs. 50 lakh. If the regular tax liability on this taxable income is less than Rs. 15 lakh (15% of the book profit of Rs. 1 crore), the company would have to pay tax at the higher rate of Rs. 15 lakh under the MAT provisions.

It's important to note that MAT is applicable only to companies, not to individuals or partnerships. Also, companies that are already paying a higher amount of tax under the regular provisions of the Income Tax Act are not required to pay MAT.

## Capital Gains Tax

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Capital gains tax is a type of direct tax that is levied on the profits that an individual or business earns from the sale of a capital asset, such as real estate, stocks, bonds, or mutual funds.

Here's how capital gains tax works in India:

Let's say you buy a piece of land for Rs. 50 lakh, and then sell it a few years later for Rs. 70 lakh. The profit you make from the sale is Rs. 20 lakh, and this profit is considered a capital gain. You would then need to pay capital gains tax on this Rs. 20 lakh profit.

There are two types of capital gains tax in India: **short-term capital gains tax** and **long-term capital gains tax**. The rate of tax you pay depends on how long you held the asset before selling it.

### List of Direct Taxes levied in India

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Tax	Description	Levied by
<b>Income tax</b>	Tax on income earned by individuals	Centre
<b>Corporate tax</b>	Tax on the profits earned by companies and corporations	Centre
<b>Capital gains tax</b>	Tax on the profits earned from the sale of a capital asset, such as real estate, stocks, bonds, or mutual funds	Centre
<b>Securities transaction tax</b>	Tax on transactions made in the stock market, such as the purchase or sale of equity shares, derivatives, or equity-oriented mutual funds	Centre
<b>Dividend distribution tax</b>	Tax on the dividends paid by companies to their shareholders	Centre Abolished in 2020
<b>Fringe benefits tax</b>	Tax on the non-monetary benefits provided by employers to their employees, such as company cars, club memberships, or free housing	Centre Abolished in 2009
<b>Wealth tax</b>	Tax on the net wealth of individuals and Hindu Undivided Families (HUFs) that exceed a certain threshold	Centre Abolished in 2016
<b>Gift tax</b>	Tax on the value of gifts received by individuals and HUFs, except for gifts received from specified relatives or on certain occasions	Abolished in 1998
<b>Estate duty</b>	Tax on the value of assets left behind by a deceased person	Abolished in 1985
<b>Property tax</b>	Tax on the value of real estate property owned by individuals and organizations	States
<b>Profession tax</b>	Tax on the income earned by professionals such as lawyers, doctors, and architects	States
<b>Minimum Alternate Tax (MAT)</b>	Tax on the profits earned by companies and corporations that are not liable to pay any income tax or pay a tax at a rate lower than the MAT rate	Centre

## Indirect Taxes in India

Tax	Description	Levied by (Centre or State)
<b>Goods and Services Tax (GST)</b>	Tax on the supply of goods and services, which replaced multiple indirect taxes previously levied by both the central and state governments.	Jointly by the Centre and the States
<b>Central Excise Duty</b>	Tax on the manufacture or production of goods, levied by the central government.	Centre
<b>Customs Duty</b>	Tax on imports and exports of goods, levied by the central government.	Centre
<b>Service Tax</b>	Tax on the provision of certain services, levied by the central government.	Centre
<b>Value Added Tax (VAT)</b>	Tax on the value added at each stage of the supply chain, levied by state governments.	States
<b>Entertainment Tax</b>	Tax on various forms of entertainment, such as movie tickets and amusement parks, levied by state governments.	States
<b>Luxury Tax</b>	Tax on the use of luxury goods and services, such as high-end hotel rooms, levied by state governments.	States
<b>Octroi</b>	Tax on goods entering a city or town, levied by local bodies such as municipal corporations or councils.	Local Bodies
<b>Entry Tax</b>	Tax on goods entering a state, levied by state governments.	States
<b>Purchase Tax</b>	Tax on the purchase of goods, levied by state governments.	States
<b>Protective Duty</b>	Tax on imported goods to protect domestic industries from foreign competition, levied by the central government.	Centre
<b>Safeguard Duty</b>	Tax on imported goods to protect domestic industries from a sudden surge in imports, levied by the central government.	Centre
<b>Countervailing Duty</b>	Tax on imported goods to offset the advantage given to foreign producers by subsidies provided by their government, levied by the central government.	Centre
<b>Anti-dumping Duty</b>	Tax on imported goods to prevent their sale at a price lower than their normal value in the exporting country, levied by the central government.	Centre
<b>Central Sales Tax (CST)</b>	Tax on the sale of goods that are sold between different states in India, levied by the central government.	Centre
<b>State Excise Duty</b>	Tax on the manufacture or sale of goods within a state, levied by state governments.	States

Several indirect taxes have been subsumed under the Goods and Services Tax (GST) in India. The following taxes are no longer levied by the Centre or the States after the introduction of GST:

1. Central Excise Duty
2. Service Tax
3. Additional Customs Duty or Countervailing Duty (CVD)
4. Special Additional Duty of Customs (SAD)
5. Central Sales Tax (CST)
6. State VAT/Sales Tax
7. Entertainment Tax (except on the taxes levied by local bodies)

8. Octroi and Entry Tax
9. Purchase Tax
10. Luxury Tax
11. Taxes on lottery, betting, and gambling

However, it's important to note that some taxes, such as Customs Duty, are still levied by the Centre even after the introduction of GST. Additionally, some goods and services are exempted from GST or are taxed at a lower rate, such as essential goods, healthcare services, and educational services.

## Goods and Services Tax (GST)

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### *What is GST?*

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GST is an indirect tax that was introduced in India on July 1, 2017. It replaced multiple indirect taxes such as VAT, excise duty, and service tax, with a single unified tax. GST is levied on the value-added at each stage of the supply chain, with the ultimate consumer bearing the tax burden.

### *Types of GST*

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There are four types of GST in India:

- **CGST (Central Goods and Services Tax):** Levied by the central government on intra-state supply of goods and services
- **SGST (State Goods and Services Tax):** Levied by state governments on intra-state supply of goods and services
- **IGST (Integrated Goods and Services Tax):** Levied by the central government on inter-state supply of goods and services
- **UTGST (Union Territory Goods and Services Tax):** Levied by Union Territory governments on intra-state supply of goods and services in Union Territories

### *GST Council*

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The GST Council is a constitutional body that was created to oversee the implementation of GST. It is responsible for making recommendations on issues related to GST such as tax rates, exemptions, and other related matters. The council is headed by the Union Finance Minister, and comprises the Finance Ministers of all the states and Union Territories.

### *Significance of GST*

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GST has brought about significant changes in the way indirect taxes are collected and administered in India. Some of the key benefits of GST are:

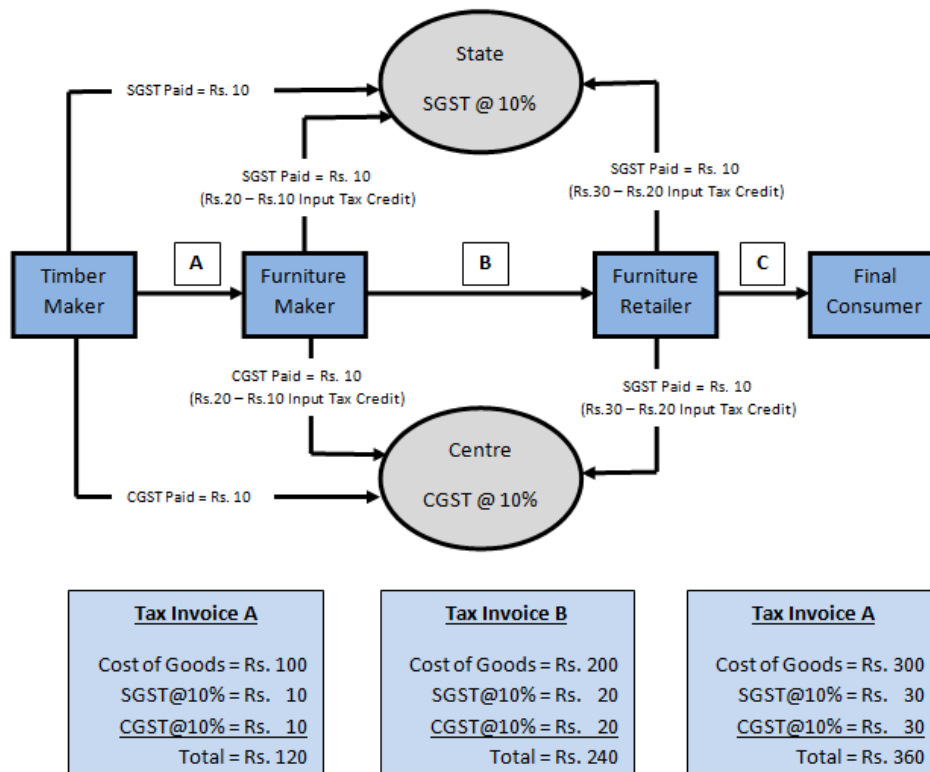
- **Simplification of tax administration:** GST has simplified the tax administration by replacing multiple indirect taxes with a single tax.
- **Reduction in tax evasion:** GST has made it difficult for businesses to evade taxes, as it is a unified tax that is levied and collected by both the central and state governments.
- **Boost to economic growth:** GST has helped to boost economic growth by increasing the ease of doing business, reducing transaction costs, and improving the competitiveness of Indian businesses.

## Understanding the Working of GST

Goods and Services Tax (GST) is designed to eliminate the cascading effect of taxes and bring uniformity in the taxation system. Within a state, GST is divided into two components: Central GST (CGST) and State GST (SGST). These taxes are levied simultaneously on a single transaction, with both the central and state governments sharing the revenue.

**Input Tax Credit (ITC)** is a crucial feature of GST. It allows businesses to claim credit for the tax paid on inputs (goods and services used to produce other goods and services). This ensures that tax is levied only on the value added at each stage of the supply chain, avoiding double taxation.

### Example to Illustrate GST Working within a State



Let's follow the journey of timber through its transformation into furniture, using GST calculations.

#### A. Timber Maker to Furniture Maker

- Cost of Goods: ₹100
- GST Rate: 20% (CGST: 10%, SGST: 10%)

GST Calculation:

- CGST: 10% of ₹100 = ₹10
- SGST: 10% of ₹100 = ₹10
- Total GST: ₹20

The timber maker sells the timber to the furniture maker for ₹100 + ₹20 (GST) = ₹120.

### B. Furniture Maker to Furniture Retailer

- Cost of Goods: ₹200
- GST Rate: 20% (CGST: 10%, SGST: 10%)

GST Calculation:

- CGST: 10% of ₹200 = ₹20
- SGST: 10% of ₹200 = ₹20
- Total GST: ₹40

Input Tax Credit (ITC):

- The furniture maker can claim ITC for the GST paid on timber (₹20).
- Net GST Payable:
  - CGST: ₹20 (on sale) - ₹10 (input) = ₹10
  - SGST: ₹20 (on sale) - ₹10 (input) = ₹10

The furniture maker sells the furniture to the furniture retailer for ₹200 + ₹40 (GST) = ₹240.

### C. Furniture Retailer to Final Consumer

- Cost of Goods: ₹300
- GST Rate: 20% (CGST: 10%, SGST: 10%)

GST Calculation:

- CGST: 10% of ₹300 = ₹30
- SGST: 10% of ₹300 = ₹30
- Total GST: ₹60

Input Tax Credit (ITC):

- The furniture retailer can claim ITC for the GST paid on furniture (₹40).
- Net GST Payable:
  - CGST: ₹30 (on sale) - ₹20 (input) = ₹10
  - SGST: ₹30 (on sale) - ₹20 (input) = ₹10

The furniture retailer sells the furniture to the final consumer for ₹300 + ₹60 (GST) = ₹360.

GST ensures that tax is collected at each stage of production and distribution but is only levied on the value added at each stage due to the availability of Input Tax Credit. This eliminates the cascading effect of taxes and ensures a more efficient tax system.

### *Benefits of GST*

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Some of the key benefits of GST are:

- **Reduction in the cascading effect of taxes:** Under the previous tax regime, businesses had to pay tax on tax, leading to a cascading effect. GST has eliminated this by allowing businesses to claim input tax credit on taxes paid on purchases.
- **Rationalization of tax rates:** GST has rationalized tax rates by bringing uniformity in tax rates across the country. This has helped to reduce the compliance burden for businesses.
- **Increase in tax revenue:** GST has helped to increase tax revenue for both the central and state governments, as it is a more efficient and transparent tax system.

## Compensation to States

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When GST was introduced in India on July 1, 2017, it replaced multiple indirect taxes levied by the central and state governments. This shift from the previous tax structure to GST had the potential to disrupt the revenue streams of the states, especially if their tax collections were lower than expected during the initial period.

To address this concern, the GST compensation mechanism was devised as a temporary measure to provide financial support to the states. The compensation is provided for a period of five years from the implementation of GST, as mandated by the GST (Compensation to States) Act, 2017.

The compensation to states is funded through the GST Compensation Cess, which is levied on certain goods and services that fall under the highest GST tax slab. The proceeds from this cess are collected in a dedicated fund known as the GST Compensation Fund.

The calculation of compensation to states is based on the difference between the projected growth rate of state tax revenues and the actual growth rate. If a state's tax revenue growth is lower than the projected growth rate, the shortfall is compensated by the central government using the funds from the GST Compensation Fund. The compensation mechanism is designed to ensure that no state faces a revenue deficit during the transition period.

The intent is to allow the states to gradually adjust to the new tax regime and become self-reliant in generating tax revenues.

## Challenges with GST

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While GST has brought about significant benefits, there are also some challenges associated with it. Some of the key challenges are:

- **Technical glitches in the GST Network:** The GST Network, which is the IT infrastructure for GST, has faced several technical glitches since its launch. This has led to delays in filing returns and other compliance-related issues.
- **Compliance burden for small businesses:** GST compliance can be a burden for small businesses, as they may not have the resources to comply with the complex tax rules.
- **Revenue loss for some states:** Some states, especially those that were previously reliant on certain indirect taxes, have experienced revenue losses under GST.

## New taxes introduced by Government of India in recent times

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**Long-Term Capital Gains Tax (LTCG)** In the Union Budget 2018, the government reintroduced the Long-Term Capital Gains (LTCG) tax on equity investments. This tax is applicable to the gains made from the sale of listed securities or equity-oriented mutual funds that are held for more than one year.

Example: Let's say an individual purchased shares of a company for Rs. 100,000 and held them for more than one year. After a year, the value of the shares increased to Rs. 150,000, resulting in a gain of Rs. 50,000. If the individual decides to sell the shares, they will be liable to pay LTCG tax on the gain of Rs. 50,000 at the applicable rate of 10%.

**Benefits:** The reintroduction of LTCG tax helps in creating a more equitable tax structure by treating long-term gains differently from short-term gains. It encourages long-term investment and discourages short-term speculative trading.

**Dividend Distribution Tax (DDT) Replaced** In the Union Budget 2020, the government abolished the Dividend Distribution Tax (DDT) that was previously levied on companies distributing dividends. Instead, the tax liability was shifted to the recipients of dividends, making it taxable in their hands.

**Example:** Suppose a company declares a dividend of Rs. 10 per share, and an individual holds 1,000 shares of that company. Previously, the company would have deducted DDT (at a rate of 15% plus applicable surcharge and cess) and distributed the remaining amount to the shareholders. However, after the change, the individual will receive the entire dividend amount of Rs. 10,000, and the tax liability on this dividend will be based on their income tax slab rate.

**Benefits:** The replacement of DDT with the new tax structure benefits individual shareholders as they are now liable to pay taxes on dividend income according to their respective income tax slabs. This change eliminates the double taxation on dividends, as companies are no longer required to pay DDT before distributing dividends. It provides greater transparency and reduces the tax burden on companies, encouraging them to distribute higher dividends to shareholders.

**Tax on Digital Services (Equalization Levy)** The Equalization Levy, popularly known as the "Google Tax," was introduced in 2016. It is a tax applicable to specified digital services provided by foreign companies operating in India.

**Example:** If an Indian company engages in online advertising services provided by a foreign company, it is required to withhold the prescribed Equalization Levy from the payment made to the foreign entity and deposit it with the government.

**Benefits:** The tax on digital services ensures that foreign digital service providers contribute to the Indian tax system. It helps create a level playing field for domestic service providers by preventing unfair competition from foreign entities. Additionally, it acts as a means to capture tax revenue from the rapidly growing digital economy, ensuring that the tax system keeps pace with changing business models and technological advancements.

## Tax-GDP Ratio

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Tax-GDP ratio is a measure of the total tax revenue collected by the government as a percentage of the country's Gross Domestic Product (GDP).

$$\text{Tax-GDP ratio} = (\text{Total Tax Revenue} / \text{GDP}) \times 100$$

### India's Tax-GDP ratio

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India's tax-GDP ratio has been historically low. In the financial year 2023-24, India's tax-GDP ratio was **around 11.6%**, which is much lower than that of developed countries like the United States, United Kingdom, and Germany, where the tax-GDP ratio is around 25-35%.



## Reasons for low Tax-GDP ratio in India

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1. **Large informal sector:** A significant portion of the Indian economy is informal, which means it is not registered with the government and does not pay taxes. This results in lower tax revenues for the government.
2. **Tax evasion:** Many individuals and businesses in India evade taxes by underreporting income or hiding assets. This reduces the amount of tax revenue collected by the government.
3. **Low compliance:** The complexity of India's tax system, along with the cumbersome and time-consuming tax compliance process, often leads to low compliance by taxpayers.

## Government initiatives to increase Tax-GDP ratio

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1. **Simplifying the tax system:** The government has undertaken several reforms to simplify the tax system, including the introduction of the Goods and Services Tax (GST), which has replaced multiple indirect taxes with a single tax.
2. **Improving tax administration:** The government has taken measures to improve tax administration, such as increasing the use of technology, reducing the compliance burden, and enhancing the capacity of tax authorities.
3. **Increasing tax base:** The government has launched various initiatives to increase the tax base, such as the Voluntary Disclosure of Income Scheme, which allows taxpayers to voluntarily disclose their undeclared income and pay taxes on it.
4. **Cracking down on tax evasion:** The government has also taken steps to crack down on tax evasion, such as implementing the Benami Transactions (Prohibition) Act, which allows for the confiscation of assets held under a fictitious name to evade taxes.

## Tax Expenditure

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Tax expenditure refers to the revenue losses incurred by the government due to provisions in the tax code that provide exemptions, deductions, credits, deferrals, and other benefits to taxpayers. It's like the government giving up potential tax revenue by providing special treatment through the tax system.

Some examples of tax incentives which lead to tax expenditure are:

- Deduction on account of contribution to the New Pension Scheme
- Deduction on account of health insurance premium
- Deduction on account of interest on loan taken for higher education
- Deduction on account of interest on loan for residential house property
- Deduction on account of contributions given to political parties
- Deduction on account of donations to charitable trusts and institutions
- Higher exemption limits for senior citizens
- Higher exemption limits for super senior citizens

## Benefits

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1. **Encouraging Desired Behavior:** Tax expenditure is often used as a tool to incentivize certain behaviors or activities that the government wants to promote. For example, tax breaks for renewable energy investments.

2. **Stimulating Economic Growth:** Tax expenditure can stimulate economic growth by providing financial incentives to individuals and businesses. For instance, tax credits for research and development activities.
3. **Reducing Tax Burden:** Tax expenditure can provide relief to individuals and businesses by reducing their tax burden. This can help increase disposable income, encourage consumer spending, and provide businesses with more capital for investment, expansion, and job creation.
4. **Addressing Social Issues:** Tax expenditure can be used to address social issues and promote fairness. For example, tax credits for low-income individuals or families can help alleviate poverty and provide support to those in need.

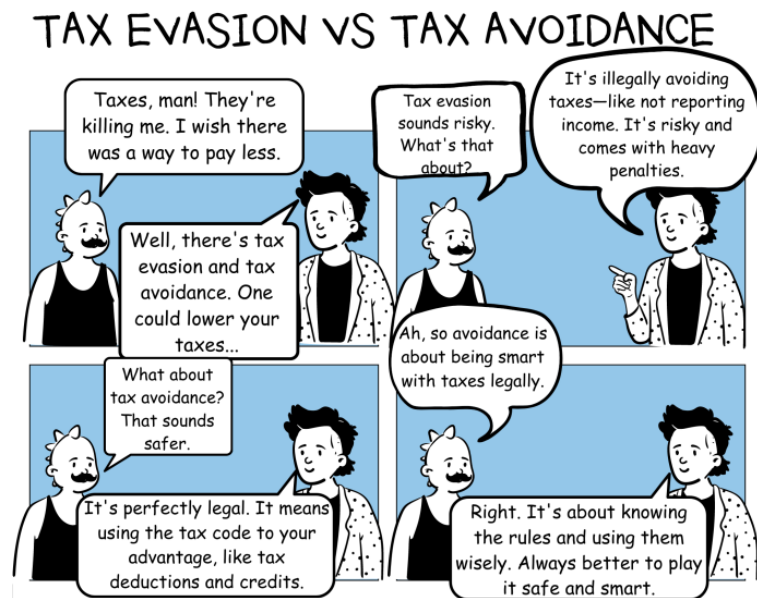
## Criticisms

1. **Selective Benefits:** Critics argue that tax expenditure can create an uneven playing field and perpetuate income inequality.
2. **Revenue Loss:** Tax expenditure reduces government revenue, which can impact funding for public services and programs.
3. **Complexity and Loopholes:** The presence of tax expenditure provisions can complicate the tax system and create opportunities for tax avoidance and evasion.
4. **Lack of Effectiveness:** There can be instances where the desired behavioral changes or economic impacts fall short of expectations, raising concerns about the efficiency and effectiveness of tax expenditure measures.

## Tax Evasion vs Tax Avoidance

**Tax evasion** is when someone illegally avoids paying their taxes. This can include hiding income, not reporting income, claiming false deductions, or not filing tax returns altogether. For example, let's say a business owner earns Rs. 50 lakhs per year but only reports earning Rs. 30 lakhs to the government. This is considered tax evasion and is illegal.

**Tax avoidance**, on the other hand, is when someone uses legal means to reduce the amount of taxes they owe. This can include taking advantage of tax deductions, credits, or exemptions. For example, let's say a business owner invests in a tax-saving scheme that allows them to deduct Rs. 1 lakh from their taxable income. This is considered tax avoidance and is legal.



In essence, the key difference between tax evasion and tax avoidance is legality. Tax evasion is illegal and can lead to fines or even criminal charges, while tax avoidance is legal and is a common practice among taxpayers.

It's important to note that while tax avoidance is legal, it can still be controversial. Some argue that it allows the wealthy to pay less in taxes than they should, while others argue that it's a legitimate way to reduce the tax burden on individuals and businesses.

## Black Money

Black money refers to income or assets that are earned or acquired through illegal means and are not reported to the government for tax purposes.

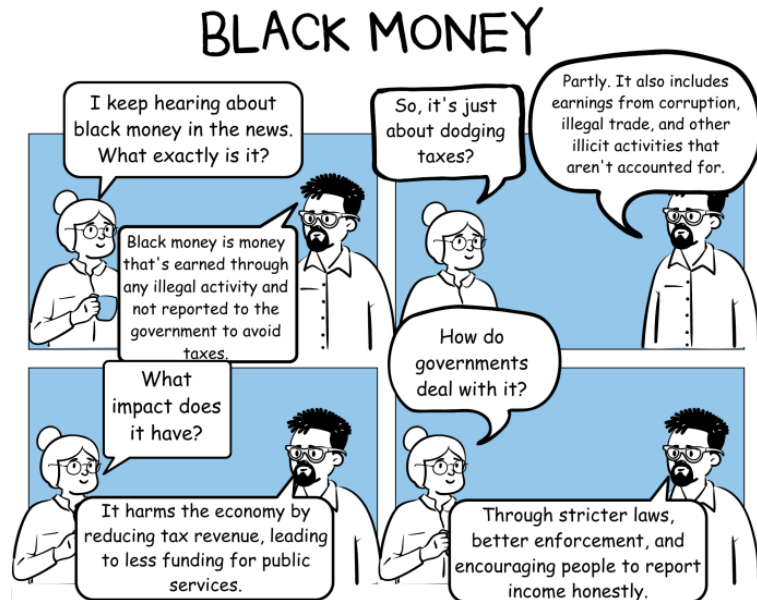
There are several ways black money can be generated in India. Some examples include:

- **Underreporting of income:** An individual or a business may underreport their income to the tax authorities to avoid paying taxes on the full amount.
- **Bribery:** An individual or a business may pay bribes to public officials to avoid paying taxes or to get preferential treatment.
- **Money laundering:** Black money generated through illegal activities may be laundered through legal channels to make it appear as legitimate income or assets.
- **Hawala transactions:** Hawala is an informal method of transferring money without using formal banking channels. This method is often used to transfer black money across borders.

The impact of black money on the Indian economy is significant. When individuals or businesses do not pay taxes on their income or assets, it reduces the government's revenue. This can lead to a shortfall in funds for public services and infrastructure development. Black money can also create an uneven playing field for businesses that do pay taxes, as non-compliant businesses can offer products and services at lower prices due to their lower tax burden.

## Impact of black money on the economy

1. **Loss of tax revenue:** When tax revenues decline, the government may face budgetary constraints, leading to reduced investments in key sectors.
2. **Distortion of economic indicators:** Since Black Money is not accounted for in official records, it creates an inaccurate picture of the economy. Key indicators like GDP (Gross Domestic Product), per capita income, and poverty levels may be misrepresented due to the presence of unaccounted income. This can misguide policymakers and hinder effective decision-making.
3. **Erosion of the formal economy:** Black money encourages a **parallel or underground economy**, which operates outside the legal system. This can undermine the formal economy in several ways. First, it creates unfair competition because businesses involved in the underground economy can offer goods or services at lower prices since they avoid taxes and regulatory compliance costs. This puts legitimate businesses at a disadvantage, leading to reduced growth and job opportunities.



Additionally, black money often fuels corruption, as individuals may resort to bribes or illicit payments to avoid legal consequences. Such corrupt practices further weaken institutions, undermine public trust, and hinder economic progress.

4. **Inequality and social implications:** Black money exacerbates economic inequality within a society. Those who evade taxes and accumulate unaccounted wealth often belong to the higher income brackets, widening the wealth gap between the rich and the poor. This inequality can have severe social implications, including reduced access to essential services, limited opportunities for upward mobility, and heightened social unrest.

## Government initiatives to tackle Black Money

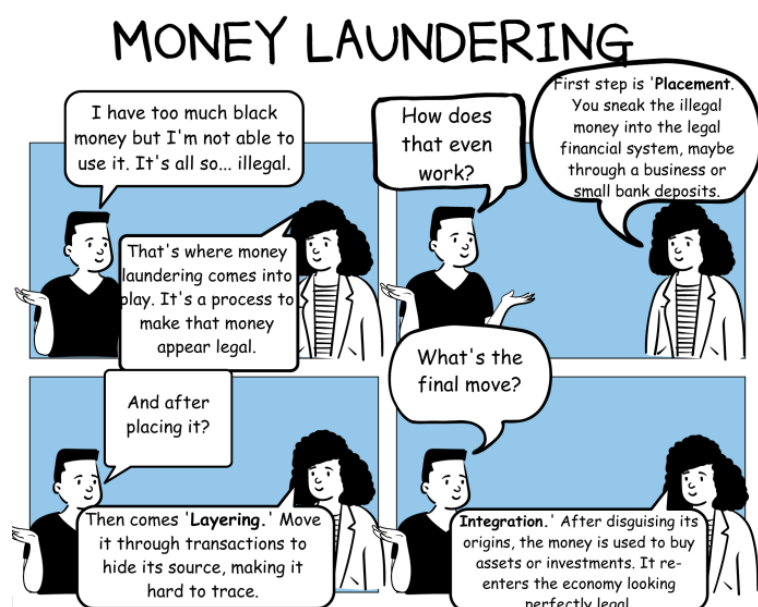
- **Demonetization:** In 2016, the Indian government demonetized high-value currency notes to tackle black money. The move aimed to eliminate unaccounted cash holdings and force individuals to deposit their unreported income into bank accounts.
- **Voluntary Disclosure Schemes:** The government has introduced several Voluntary Disclosure Schemes (VDS) in the past, where individuals or businesses can declare their unreported income and assets without fear of prosecution.
- **Introduction of Benami Transactions (Prohibition) Act:** The government introduced the Benami Transactions (Prohibition) Act in 2016 to tackle the issue of benami transactions, which refers to property or assets held in someone else's name to evade taxes.
- **Implementation of Goods and Services Tax (GST):** The implementation of GST has reduced tax evasion by bringing more businesses into the formal tax net.

## Money Laundering

Money laundering refers to the process of making illegally obtained money, known as "dirty money," appear as though it came from legal sources. The purpose of money laundering is to hide the true origins of the funds, making it difficult for authorities to trace and link them to criminal activities.

Money laundering generally involve three main stages: placement, layering, and integration.

1. **Placement:** In this stage, the illicit funds are introduced into the legitimate financial system. This can be done by depositing cash into bank accounts, purchasing assets such as real estate or luxury goods, or using money transfer services. For instance, a person involved in drug trafficking might deposit large amounts of cash into multiple bank accounts to blend it with legitimate funds.
2. **Layering:** In this stage, the goal is



to create complex transactions to obscure the audit trail and make it difficult to trace the origin of the funds. This involves multiple layers of transactions and transfers, often across different jurisdictions or financial institutions. For example, the launderer might move funds between various bank accounts, make investments, or conduct international wire transfers to confuse investigators.

3. **Integration:** In the final stage, the laundered money is reintroduced into the legitimate economy, making it appear as legitimate income or assets. This can be done by investing in businesses, purchasing more properties, or simply spending the money on lavish lifestyles. The launderer may use these funds freely without raising suspicions. For instance, the launderer could start a legitimate business and use the illicit funds to finance its operations.

Money laundering have evolved with advancements in technology and globalization. Here are some examples of how money laundering is conducted using modern methods:

1. **Cryptocurrencies:** The rise of cryptocurrencies, such as Bitcoin, has provided new opportunities for money laundering. Criminals can use digital currencies to transfer funds globally with relative anonymity. They can convert illicit funds into cryptocurrencies, move them through multiple digital wallets, and then convert them back into traditional currencies, effectively obscuring the trail of the money. Cryptocurrencies' decentralized nature and the use of blockchain technology make it challenging for authorities to trace these transactions.
2. **Online Payment Systems:** Online payment systems, like PayPal, Venmo, or other digital wallets, can be exploited for money laundering purposes. Criminals can create multiple accounts, conduct transactions between these accounts, and then withdraw funds or transfer them to other bank accounts. These systems provide a quick and convenient way to move money globally, making it harder for authorities to detect suspicious activities.
3. **Money Mules:** Money mules are individuals who are recruited to facilitate money laundering by receiving illicit funds into their own bank accounts and then transferring them to other accounts or overseas. Criminals often exploit unsuspecting individuals by offering them financial incentives or posing as legitimate job opportunities. Money mules provide a layer of separation between the illegal activities and the funds' ultimate destination, making it challenging to trace the source of the money.
4. **Offshore Accounts and Tax Havens:** Money launderers frequently utilize offshore accounts and jurisdictions with lax financial regulations and strict secrecy laws. They can establish shell companies or open bank accounts in these locations to disguise the ownership and control of the funds. By funneling money through offshore accounts, criminals can hide the true origin of the funds, making it difficult for authorities to follow the money trail.
5. **Online Gambling and Casinos:** Online gambling platforms and physical casinos can be exploited for money laundering. Criminals can use illicit funds to gamble and then cash out their winnings as clean money. The complex transactions and large volume of cash flowing through these establishments can make it challenging for authorities to distinguish between legitimate gambling activities and money laundering.

To tackle money laundering, the Government of India has taken several **initiatives**:

1. **The Prevention of Money Laundering Act (PMLA):** The PMLA is the primary legislation in India that addresses money laundering. It provides a legal framework for the detection, investigation, and prevention of money laundering activities. The law imposes obligations on financial institutions to report suspicious transactions to the authorities and establishes penalties for non-compliance.
2. **Financial Intelligence Unit-India (FIU-IND):** The FIU-IND is the central agency responsible for collecting, analyzing, and disseminating information related to suspicious financial transactions. It



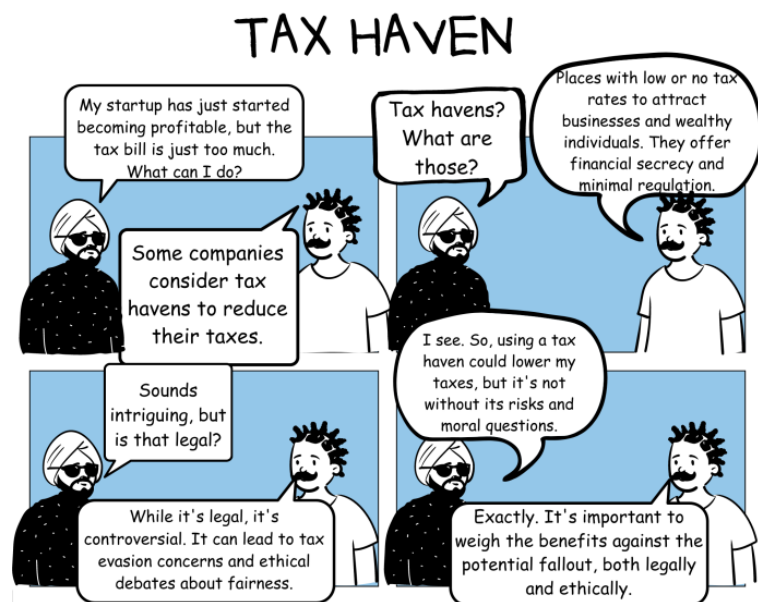
acts as the nodal agency for receiving and analyzing suspicious transaction reports from banks and other financial intermediaries.

3. **Know Your Customer (KYC) Norms:** The government has implemented stringent KYC norms to ensure that financial institutions properly identify their customers and maintain records of their transactions. These measures help in establishing the identity of customers and detecting any suspicious or unusual activities.
4. **International Cooperation:** India actively participates in international forums like Financial Action Task Force (FATF) and cooperates with other countries to combat money laundering. It has signed various bilateral and multilateral agreements for exchanging information, freezing assets, and extraditing individuals involved in money laundering.

## Tax Haven

A tax haven is a country or territory that has very low or no tax rates, and which is used by individuals and companies to avoid paying taxes in their home country. This is usually done by moving money or assets to the tax haven, where it can be kept without attracting significant tax liability.

For example, let's say a wealthy Indian businessperson wants to avoid paying high taxes on their income. They could set up a company in a tax haven country like the Cayman Islands or Bermuda, and transfer their assets to that company. Because the tax rates in the tax haven are so low, they would pay very little tax on their income.



To counter tax havens, many countries have implemented various measures to prevent individuals and companies from avoiding taxes. Here are a few examples of countermeasures against tax havens:

1. **Tax treaties:** Countries can enter into tax treaties with each other, which provide for the exchange of information and the prevention of tax evasion. These treaties help countries to track down and tax income that has been moved to tax havens.
2. **Taxation of controlled foreign corporations (CFCs):** Many countries tax the income of CFCs, which are companies that are based in tax havens but controlled by residents of another country. This helps to prevent individuals and companies from using tax havens to avoid taxes.
3. **Blacklisting:** Some countries maintain a list of tax havens that are not cooperative in tax matters. They may apply stricter regulations or impose penalties on transactions with these tax havens.
4. **Automatic exchange of information:** Countries can also agree to automatically exchange financial information, which helps to detect and prevent tax evasion.

## Indirect Transfers

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Indirect transfer refers to a situation where shares or ownership of a company are transferred, but the real value of those shares comes from the underlying assets of another company located in a different country. This becomes important because the gains from such transfers can potentially escape tax liabilities in that country.

Let's look at an example to clarify this concept. In 2007, there was a big deal involving UK based Vodafone, a well-known telecommunications company, and Hutchison Essar, an Indian telecommunications company (now known as Vodafone Idea).

Vodafone wanted to expand its presence in India, so it acquired the shares of a foreign company called Hutchison Whampoa, based in Hong Kong, which held a substantial stake in Hutchison Essar. So even though Vodafone didn't directly buy those Indian assets, it indirectly gained control over them through the shares it purchased.

The problem came when the Indian tax authorities said that this kind of indirect transfer should be taxed because it involved valuable Indian assets. Vodafone disagreed and said they shouldn't be taxed since it was a deal between two foreign companies. This disagreement led to a big legal fight.

## Global Treaties and Agreements related to taxation

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**Double Taxation Avoidance Agreement (DTAA)** A DTAA is an agreement between two countries that aims to avoid double taxation of income that may arise in both countries. For example, if an Indian resident earns income from a foreign country, they may be liable to pay tax on that income in both India and the foreign country. A DTAA can help avoid this situation by allowing for the tax paid in one country to be credited against the tax liability in the other country. India has signed DTAA agreements with many countries, including the United States, the United Kingdom, and Singapore.

**Base Erosion and Profit Shifting (BEPS)** BEPS is an initiative led by the Organisation for Economic Co-operation and Development (OECD) to combat tax avoidance strategies used by multinational companies. These strategies involve shifting profits to low-tax jurisdictions and taking advantage of loopholes in tax laws. The BEPS project aims to develop international standards and guidelines to prevent such tax avoidance. As a country with good working relationship with the OECD, India has committed to implementing BEPS standards.

Let's say there is a multinational company that operates in several countries, including India. The company has a subsidiary in a low-tax country, where it books most of its profits. However, the subsidiary does not actually perform much of the company's actual operations, as those are carried out by the company's employees in India.

Under BEPS, tax authorities in India may investigate this situation and determine that the profits booked in the low-tax country are not justified by the actual economic activity that took place there. The tax authorities may then require the company to pay additional taxes on those profits in India, where the actual economic activity took place.

BEPS guidelines provide tax authorities with a framework to identify and address such tax avoidance strategies, in order to ensure that companies are paying their fair share of taxes.

**Global Minimum Tax** The global minimum tax is a proposed tax that would ensure that multinational companies pay a minimum level of tax on their profits, regardless of where they are located. The idea behind this tax is to prevent companies from shifting profits to low-tax countries. The proposal is being discussed among countries in the G20 and the OECD, and India is a part of these discussions.

**Advance Pricing Agreement (APA)** An APA is an agreement between a taxpayer and tax authorities that determines in advance the transfer pricing methodology to be applied to transactions between related parties. This can help avoid disputes between taxpayers and tax authorities.

Let's say that an Indian company, ABC Pvt Ltd, has a subsidiary in the United States, XYZ Inc. ABC Pvt Ltd purchases goods from XYZ Inc at a certain price. However, the Indian tax authorities suspect that the price at which the goods are being sold is not an arm's length price (i.e., the price that would be charged between two unrelated parties in a similar transaction).

To avoid any potential tax disputes, ABC Pvt Ltd and the US tax authorities can enter into an APA. The APA would ensure that the price at which the goods are being sold is at arm's length and would avoid any tax disputes in the future.

**General Anti-Avoidance Rule (GAAR)** GAAR is a provision in Indian tax law that aims to prevent tax avoidance through the use of artificial and contrived transactions. GAAR gives the tax authorities the power to recharacterize transactions that are deemed to be designed primarily for tax avoidance purposes. This provision aims to ensure that taxpayers are not able to avoid tax through artificial structures.

Let's say a company wants to avoid paying taxes on profits it earned in India. To do this, the company creates a complex web of transactions involving several subsidiaries and holding companies located in different countries, including tax havens.

Under GAAR, the tax authorities can investigate and recharacterize these transactions if they are deemed to be designed primarily for tax avoidance purposes. The tax authorities may determine that the transactions are artificial and contrived, and reclassify them as if they had been structured differently to reflect the economic reality of the situation.

In this case, the tax authorities may treat the company's subsidiaries and holding companies as a single entity and tax the profits earned in India accordingly. This could result in the company paying higher taxes on its profits, as it would no longer be able to use artificial structures to avoid tax.



## Additional Terms and Concepts

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### *Sin Tax*

A sin tax is a tax imposed on goods and services considered harmful or undesirable, such as tobacco, alcohol, and sugary drinks. The purpose is to reduce consumption of these goods and generate revenue for the government.

Example: In India, there is a high tax on cigarettes and alcohol. This sin tax discourages people from consuming these harmful products and also generates revenue that the government can use for public health programs and other services.

### *Carbon Tax*

A carbon tax is a tax imposed on the carbon content of fossil fuels to reduce carbon dioxide emissions and combat climate change. It aims to encourage individuals and businesses to reduce their carbon footprint by making carbon-intensive activities more expensive.

### *Stamp Duty*

Stamp duty is a tax imposed on legal documents, typically involved in the transfer of assets such as real estate, stocks, and bonds. The amount of stamp duty is usually a percentage of the transaction value.

### *Tax Neutrality*

Tax neutrality means that the tax system is designed in such a way that it does not influence or distort economic decisions. Ideally, taxes should not favor one type of economic activity over another or influence business and investment decisions.

Example: If the Indian government imposes the same tax rate on income earned from both labor (salaries) and capital (investments), it is practicing tax neutrality. This ensures that individuals do not favor one form of earning over the other purely for tax reasons, leading to a more balanced and efficient economy.

### *Tax Holiday*

A tax holiday is a temporary reduction or elimination of taxes granted by the government to encourage investment and economic activity in certain sectors or regions.

Example: The Indian government might offer a five-year tax holiday to companies investing in renewable energy projects. During this period, these companies would not have to pay corporate taxes on profits earned from their renewable energy projects. This incentive encourages businesses to invest in green energy, helping to promote sustainable development.

### *Tax Amnesty*

A tax amnesty is a limited-time opportunity for taxpayers to pay back taxes owed without facing penalties or legal consequences. It aims to encourage compliance and increase tax revenue by allowing individuals and businesses to declare previously unreported income.

Example: The Indian government might announce a tax amnesty program allowing individuals and businesses to disclose undeclared income and assets by paying a reduced penalty or interest rate. For example, if someone has ₹1,00,00,000 in undeclared income, they can come forward, declare it, and pay a lower penalty rate than usual. This helps the government collect more revenue while giving taxpayers a chance to regularize their tax affairs.

## Previous Years Prelims Questions

1.	<p>Which one of the following effects of creation of black money in India has been the main cause of worry to the Government of India?</p> <p>a) Diversion of resources to the purchase of real estate and investment in luxury housing  b) Investment in unproductive activities and purchase of precious stones, jewellery, gold etc.  c) Large donations to political parties and growth of regionalism  d) Loss of revenue to the State Exchequer due to tax evasion</p>	2021
2.	<p>What is/are the most likely advantages of implementing 'Goods and Services Tax (GST)'?</p> <p>(1) It will replace multiple taxes collected by multiple authorities and will thus create a single market in India.  (2) It will drastically reduce the 'Current Account Deficit' of India and will enable it to increase its foreign exchange reserves.  (3) It will enormously increase the growth and size of the economy of India and will enable it to overtake China in the near future.</p> <p>Select the correct answer using the code given below:</p> <p>(a) 1 only  (b) 2 and 3 only  (c) 1 and 3 only  (d) 1, 2 and 3</p>	2017
3.	<p>Consider the following statements :</p> <p>(1) Tax revenue as a percent of GDP of India has steadily increased in the last decade.  (2) Fiscal deficit as a percent of GDP of India has steadily increased in the last decade.</p> <p>Which of the statements given above is/are correct ?</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2  (d) Neither 1 nor 2</p>	2017
4.	<p>A decrease in tax to GDP ratio of a country indicates which of the following?</p> <p>(1) Slowing economic growth rate  (2) Less equitable distribution of national income</p>	2015

	<p>Select the correct answer using the code given below.</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	
5.	<p>The sales tax you pay while purchasing a toothpaste is a</p> <p>(a) tax imposed by the Central Government (b) tax imposed by the Central Government but collected by the State Government (c) tax imposed by the State Government but collected by the Central Government (d) tax imposed and collected by the State Government</p>	2014

### Previous Years Mains Questions

1.	Discuss how emerging technologies and globalisation contribute to money laundering. Elaborate measures to tackle the problem of money laundering both at national and international levels.	2021
2.	Explain the rationale behind the Goods and Services Tax (Compensation to States) Act of 2017. How has COVID-19 impacted the GST compensation fund and created new federal tensions?	2020
3.	Enumerate the indirect taxes which have been subsumed in the goods and services tax (GST) in India. Also, comment on the revenue implications of the GST introduced in India since July 2017.	2019
4.	Comment on the important changes introduced in respect of the Long term Capital Gains Tax (LCGT) and Dividend Distribution Tax (DDT) in the Union Budget for 2018-2019.	2018
5.	What is the meaning of the term 'tax expenditure'? Taking the housing sector as an example, discuss how it influences the budgetary policies of the government.	2013
6.	Discuss the rationale for introducing the Goods and Services Tax (GST) in India. Bring out critically the reasons for the delay in roll out for its regime.	2013

### Answers

1.	D	2.	A
3.	D	4.	A
5.	Sales Tax subsumed in GST. Hence this question is no more relevant		

# 11

**CHAPTER**

BANKING  G



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# Chapter 11

## Banking

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Banking is an integral part of any modern economy, providing a range of financial services to individuals, businesses, and governments. Banks are financial intermediaries that accept deposits and use those funds to provide loans, investments, and other financial services. They play a crucial role in the allocation of credit, payment system, and liquidity provision in the economy.

### Evolution of Banking in India

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#### Pre-independence

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Before India gained independence from British rule in 1947, banking was largely controlled by foreign banks. Among the first banks was, the Bank of Hindustan, was established in 1770 by a group of European merchants. Over the years, more foreign banks opened branches in India, such as the Bank of Bengal, the Bank of Bombay, and the Bank of Madras.

In the late 19th century, some Indian entrepreneurs started their own banks to cater to the needs of the Indian people. For example, in 1894, the Punjab National Bank was founded to promote Indian self-reliance in the banking sector. However, these Indian banks faced many challenges, including limited access to capital and competition from the more established foreign banks.

#### Post-independence 1947-1991

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After independence, the Indian government nationalized most of the foreign banks in the country, including the Bank of India and the Imperial Bank of India, which became the State Bank of India. This move was made to promote Indian control over the banking sector and to ensure that the banking system served the needs of the Indian people.

The government also established several new banks, such as the Industrial Development Bank of India (IDBI) and the National Bank for Agriculture and Rural Development (NABARD), to promote industrial and agricultural development in the country. These banks were also nationalized, meaning that the government had a controlling stake in their operations.

However, the banking sector in India was largely regulated and had limited competition. Banks were required to follow strict rules and regulations, and interest rates were set by the government. This made it difficult for banks to innovate and compete with each other, which in turn limited access to credit and other financial services for the general public.

## Post-independence since 1991

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Starting in the early 1990s, the Indian government began to liberalize the banking sector, allowing for more private sector participation and competition. This was part of a broader set of economic reforms that aimed to modernize and liberalize the Indian economy.

Today, India has a mix of public sector, private sector, and foreign banks operating in the country. The Reserve Bank of India (RBI) still regulates the banking sector, but banks have more autonomy in setting interest rates and conducting their operations. This has led to greater innovation and competition in the sector, which has in turn increased access to credit and other financial services for the general public.

The government has also launched several initiatives to promote financial inclusion, such as the Pradhan Mantri Jan Dhan Yojana, which aims to provide every household in India with a bank account.

## Banks

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Let's start with the definition of a bank. A bank is a financial institution that accepts deposits from individuals and organizations and provides loans, credit, and other financial services to its customers. Banks play a crucial role in the economy by facilitating financial transactions and promoting economic growth.

### Primary functions

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There are two primary functions of banks:

1. **Accepting deposits:** One of the primary functions of a bank is to accept demand and time deposits from its customers. Banks offer various types of deposit accounts like savings accounts, current accounts, fixed deposit accounts, etc. These accounts allow customers to deposit their money in the bank and earn interest on it.
2. **Providing loans:** The second primary function of banks is to provide loans to individuals and organizations. Banks offer various types of loans like personal loans, home loans, car loans, business loans, etc. These loans help people and businesses to meet their financial needs.

### Secondary functions

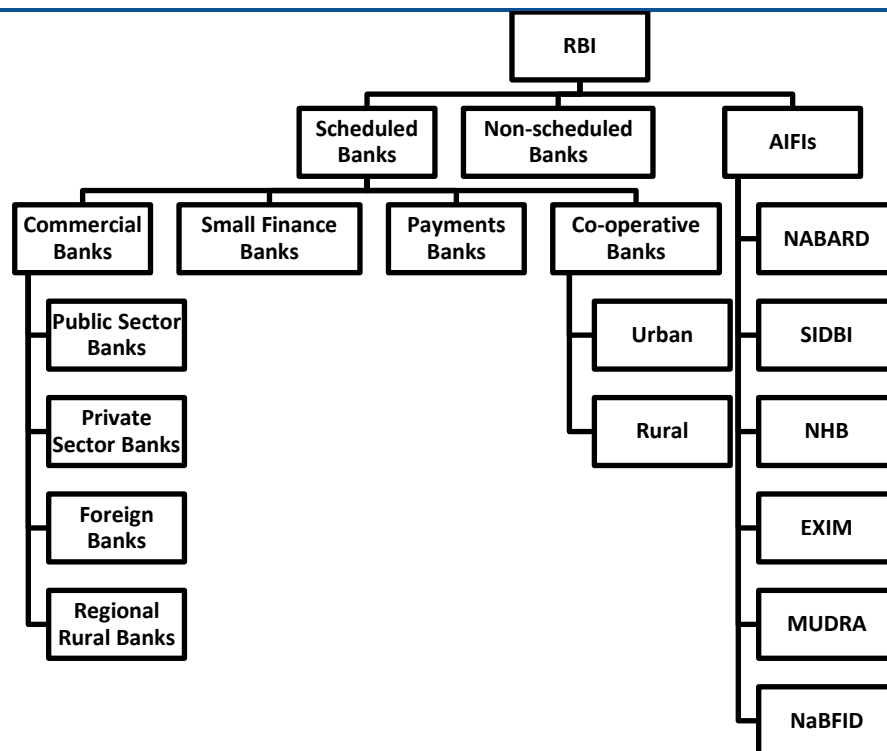
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1. **Providing financial advice:** Banks also provide financial advice to their customers. They have financial experts who can guide their customers in making wise financial decisions. For example, if you want to invest your money, you can seek advice from your bank's financial expert.
2. **Issuing credit and debit cards:** Banks also issue credit and debit cards to their customers. These cards allow customers to make cashless transactions.
3. **Providing safe deposit boxes:** Banks also provide safe deposit boxes to their customers to store their valuables like jewelry, documents, etc.
4. **Foreign exchange services:** Banks also provide foreign exchange services to their customers. For example, if you are traveling to a foreign country, you can exchange your local currency for the currency of the country you are traveling to at your bank.

## Bank Balance Sheet

Assets	Liabilities
Cash	Deposits
Loans	Borrowings
Investments	Bank's Capital
Buildings and Equipment	Other Liabilities
Other Assets	

## Classification of Banks



## Reserve Bank of India (RBI)

The Reserve Bank of India (RBI) is the apex monetary authority in India, established under the Reserve Bank of India Act, 1934. As the central bank of the country, the RBI plays a pivotal role in formulating and implementing monetary policy, regulating and supervising the banking sector, ensuring financial stability, and undertaking key functions as follows:

1. **Monetary Policy Formulation:** The RBI is entrusted with the task of formulating and executing the monetary policy of India. It uses various instruments, such as the repo rate, reverse repo rate, and cash reserve ratio, to influence money supply and credit conditions in the economy. The aim is to maintain price stability and support sustainable economic growth.

2. **Currency Issuance and Management:** The RBI has the sole authority to issue currency notes and coins in India. It undertakes the responsibility of ensuring an adequate supply of currency to meet the demands of the economy while preventing excess liquidity that may lead to inflationary pressures.
3. **Banking Regulation and Supervision:** As the regulator of the banking sector, the RBI enforces prudential norms and guidelines to ensure the soundness and stability of banks. It issues licenses for new banks, monitors their operations, and intervenes when necessary to safeguard depositor interests and maintain the integrity of the financial system.
4. **Foreign Exchange Management:** The RBI manages India's foreign exchange reserves and formulates policies to govern foreign exchange transactions. It aims to maintain exchange rate stability and support the balance of payments position.
5. **Developmental Role:** Apart from its regulatory and supervisory functions, the RBI plays a developmental role in fostering a well-functioning financial system. It promotes financial inclusion initiatives, encourages the adoption of technological innovations, and facilitates the development of financial markets.
6. **Banker to the Government:** The RBI acts as the banker to the central and state governments. It conducts their banking operations, manages their accounts, and facilitates the issuance and redemption of government securities.
7. **Banker's Bank:** The RBI serves as the banker's bank, meaning that it provides banking services to other banks. Commercial banks can maintain their deposits with the RBI, and it offers various facilities, such as interbank funds transfer and settlement systems, to support smooth banking operations.
8. **Lender of Last Resort:** In times of financial crisis or liquidity shortages, the RBI acts as the lender of last resort for banks. It provides emergency financial assistance to banks facing temporary liquidity problems to prevent widespread panic and maintain stability in the banking system.
9. **Financial Stability and Surveillance:** The RBI actively monitors the financial system for potential risks and vulnerabilities. It conducts periodic assessments and stress tests to ensure the stability and resilience of the financial sector.

### Schedule and Non-Schedule Banks

Criteria	Schedule Banks	Non-Schedule Banks
<b>Schedule</b>	Listed in the 2nd Schedule of the RBI Act	Not listed in the 2nd Schedule of the RBI Act
<b>Compliance with RBI guidelines</b>	Required to comply with all RBI guidelines and regulations	Required to comply with only basic RBI guidelines and regulations
<b>Borrowing from RBI</b>	Eligible to borrow from the RBI's various credit facilities	Not eligible to borrow from the RBI's credit facilities
<b>CRR (Cash Reserve Ratio)</b>	Required to maintain a certain percentage of their net demand and time liabilities as CRR with the RBI	Not required to maintain CRR with the RBI
<b>Loans from RBI</b>	Eligible for loans from the RBI under certain schemes and conditions	Not eligible for loans from the RBI
<b>Paid-up Capital</b>	Required to have a minimum paid-up capital of Rs. 100 crore	No specific minimum requirement for paid-up capital
<b>Membership</b>	Member of clearinghouses and payment systems	Not necessarily a member of clearinghouses and payment systems

<b>Examples</b>	State Bank of India, HDFC Bank, ICICI Bank, etc.	The Andaman and Nicobar State Co-operative Bank Ltd., The Arunachal Pradesh State Co-operative Apex Bank Ltd. etc.
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## Public Sector Banks

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Public sector banks are financial institutions under the control of the government, which means that more than 50% of their shares are owned by the government. In India, there are currently 12 public sector banks, including the State Bank of India, Bank of India, Punjab National Bank, and Canara Bank.

They are subject to government regulations and oversight. This means that the government can influence their policies, lending practices, and decision-making to align with the broader economic and social goals of the country.

Public sector banks also play a critical role in financial inclusion, as they are required to provide banking services to all segments of society, including those in rural areas and low-income groups.

## Private Sector Banks

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Scheduled Private Sector Banks are banks that are owned by private entities, not the government. They have shareholders who own the bank and have invested their money in it.

There are 21 Scheduled Private Sector Banks in India. Some examples of these banks are Axis Bank, ICICI Bank, HDFC Bank, and Kotak Mahindra Bank. These banks operate like any other bank, accepting deposits from customers, giving out loans, and providing other financial services.

Even though these banks are privately owned, they are still subject to regulatory oversight from the Reserve Bank of India (RBI). This means that the RBI is responsible for making sure these banks follow certain rules and regulations to protect their customers and the overall financial system.

For example, the RBI might require the bank to conduct regular audits to make sure everything is running smoothly. This regulatory oversight helps maintain the stability and integrity of the banking system.

## Foreign Banks

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Scheduled foreign banks are banks that are based outside of India but have opened branches or offices within India. These banks are allowed to operate in India as they have obtained the necessary approvals and licenses from the Reserve Bank of India (RBI).

For example, HSBC, Standard Chartered Bank, and Citibank are foreign banks that operate in India. These banks have their headquarters in other countries but have set up branches in various cities across India, such as Mumbai, New Delhi, and Bangalore.

Just like any other bank operating in India, scheduled foreign banks have to follow the rules and regulations set by the RBI. They are subject to the same regulatory oversight and supervision as Indian banks, and they must comply with the various guidelines and policies set by the RBI.

## Regional Rural Banks

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Regional Rural Banks (RRBs) were established to help bridge the gap in credit availability that rural people often face due to lack of access to banking facilities.

RRBs are jointly owned by the central government, the state government, and a sponsor bank. The central government owns 50% of the bank, the state government owns 15%, and the remaining 35% is owned by a sponsor bank. The sponsor bank is usually a nationalized bank that helps with the management and operation of the RRB.

There are several Regional Rural Banks operating in India. For example, Baroda Uttar Pradesh Gramin Bank, Andhra Pradesh Grameena Vikas Bank, Bihar Gramin Bank.

## Small Finance Banks

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Scheduled small finance banks are a type of bank that is licensed by the Reserve Bank of India (RBI) under its Guidelines for Licensing of Small Finance Banks in the Private Sector. These banks specialize in providing financial services such as loans, deposits, and insurance to micro-industries, small farmers, and the unorganized sector.

Scheduled small finance banks have a mandate to promote financial inclusion and reach underserved segments of the population. They are required to maintain a minimum capital adequacy ratio of 15%, which ensures that they have enough capital to meet their obligations. In addition, they are required to maintain a priority sector lending target of 75%, which means that at least 75% of their loans should be directed towards priority sectors such as agriculture, micro and small enterprises, and weaker sections of society.

Currently, there are 11 scheduled small finance banks operating in India. Examples of these banks include AU Small Finance Bank and Capital Small Finance Bank.

## Scheduled Payment Banks

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Scheduled payment banks (SPBs) are a type of bank in India that are licensed by the Reserve Bank of India (RBI) to provide payment services to customers. These banks are not authorized to lend money or issue credit cards, but they can accept deposits from customers and provide other payment-related services.

One of the key features of SPBs is that they focus on serving low-income customers in rural and remote areas who may not have access to traditional banking services. SPBs use technology, such as mobile banking and online banking, to provide convenient and affordable payment services to their customers.

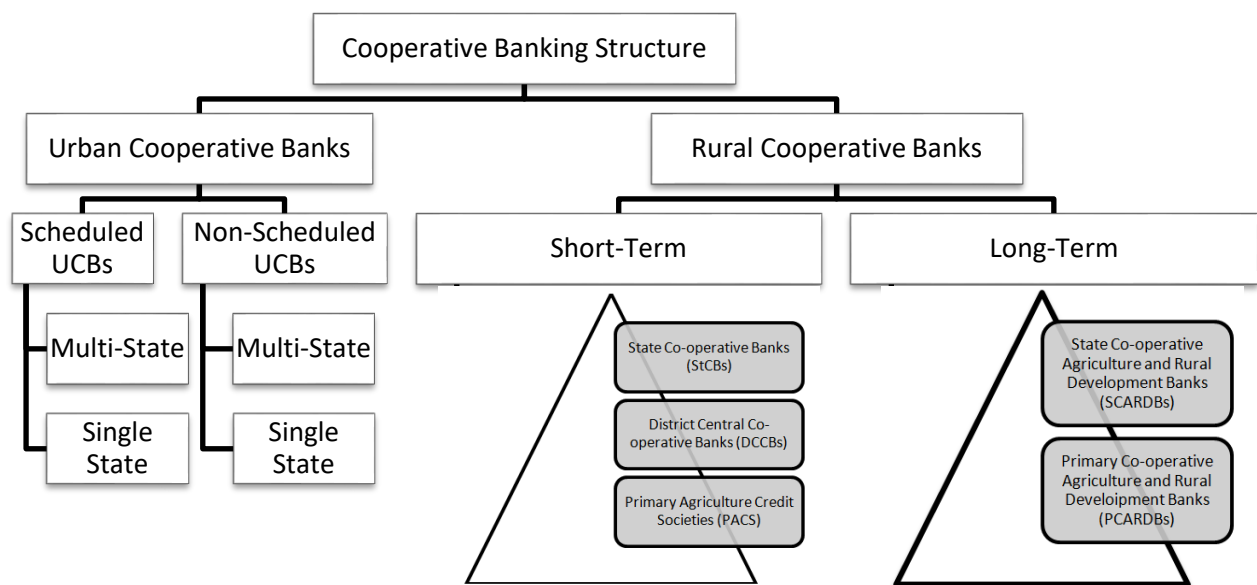
Here are some examples of the types of services that SPBs might offer:

- **Remittances:** Many people who work in cities or other areas send money back home to their families in rural areas. SPBs can help facilitate these remittances by providing a secure and convenient way to transfer money from one account to another.
- **Savings accounts:** SPBs can offer savings accounts to customers, which allow them to earn interest on their deposits. These accounts typically have lower minimum balance requirements than traditional banks, which makes them more accessible to low-income customers.
- **Bill payments:** SPBs can help customers pay their utility bills, such as electricity and water bills, through online or mobile banking. This makes it easier for customers to manage their finances without having to travel to a physical bank branch.
- **Merchant payments:** SPBs can help merchants accept digital payments from customers, such as through a mobile app or QR code. This can help promote digital transactions and reduce the reliance on cash.

Some examples of scheduled payment banks in India include Airtel Payments Bank, Fino Payments Bank, and Paytm Payments Bank.

## Cooperative Banks

Cooperative banks are financial institutions that are owned and operated by their members. These members are typically individuals or businesses in the same geographic area or industry who have come together to pool their financial resources and provide banking services to themselves and others.



Note: In view of the broader role of Land Development Banks (LDBs) they are now known as State Co-operative Agriculture and Rural Development Banks (SCARDBs).

There are two types of cooperative banks: **urban** and **rural**. Urban cooperative banks operate in cities and towns, while rural cooperative banks operate in rural areas.

The primary objective of cooperative banks is to provide affordable and accessible financial services to their members, who are often people from lower-income groups who may not have access to traditional banking services. They offer a range of financial products and services such as savings accounts, fixed deposits, loans, and remittance services.

Cooperative banks are also unique in that they operate on a principle of democratic control. Each member of the bank has one vote, regardless of the amount of money they have deposited or borrowed. This ensures that the bank is run in the best interests of its members, rather than for the benefit of external shareholders.

## Urban Cooperative Banks (UCBs)

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Urban Cooperative Banks cater to the banking needs of urban and semi-urban populations. These banks are further classified based on their inclusion in the Reserve Bank of India's (RBI) schedules:

1. **Scheduled Urban Cooperative Banks:** These banks are listed under the 2nd Schedule of the Reserve Bank of India Act, 1934. Being scheduled banks, they have to maintain a certain level of reserves and meet specific criteria set by the RBI, which allows them greater credibility. Example: Ahmedabad Mercantile Co-op Bank Ltd., Bombay Mercantile Co-operative Bank Ltd.
2. **Non-Scheduled Urban Cooperative Banks:** These banks are not listed under the 2nd Schedule of the Reserve Bank of India Act, 1934. While they operate under the same regulatory framework as scheduled banks, they do not need to maintain the same level of reserves, typically leading to smaller operations compared to their scheduled counterparts. Example: Akhand Anand Co-operative Bank Ltd., Surat; Sadhana Sahakari Bank Ltd., Pune.

Both scheduled and non-scheduled UCBs can be further classified based on their operational scope:

1. **Single-State Urban Cooperative Banks:** These banks operate within the confines of a single state and are governed by the respective State laws on co-operative societies. The incorporation, regulation and winding up of co-operative societies (other than those operating in more than one state) is a State subject.
2. **Multi-State Urban Cooperative Banks:** These banks operate in more than one state, and are governed by the Multi-State Co-operative Societies Act, 2002. Their incorporation, regulation and winding up fall in the central domain. Example: Bombay Mercantile Co-operative Bank Ltd.

## Rural Cooperative Banks (RCBs)

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Rural Cooperative Banks are primarily focused on agricultural financing and rural development. These banks are further divided based on the loan terms they offer, i.e., short-term and long-term:

**Short-Term:** Short term RCBs operates on a three-tier system designed to facilitate agricultural credit and related services:

1. **State Cooperative Banks (StCBs):** Positioned at the top of the hierarchy, these banks operate at the State level. StCBs oversee and support District Central Cooperative Banks within the state, providing them with necessary funds and guidance. Example: Andhra Pradesh State Co-operative Bank Ltd., Haryana State Co-operative Apex Bank Ltd.



2. **District Central Cooperative Banks (DCCBs):** These banks operate at the district level, serving as intermediaries who distribute funds to the Primary Agricultural Credit Societies (PACS) below them and gather deposits from them. Example: Anantapur District Co-operative Bank Ltd., Chittoor District Co-operative Bank Ltd.
3. **Primary Agricultural Credit Societies (PACS):** These are the grassroots-level entities that deal directly with farmers and rural customers, offering them credit for crop production and other agricultural needs. Example: Sonamarg View Primary Agricultural Cooperative Credit Society Ltd.

**Long-Term:** Long term RCBs involves two tiers, focusing on providing support for longer-term projects in the agricultural and rural development sectors:

1. **State Cooperative Agriculture and Rural Development Banks (SCARDBs):** These banks provide long-term loans for agricultural development and rural infrastructure projects at the state level. Example: Tripura Cooperative Agriculture & Rural Development Bank Ltd.
2. **Primary Cooperative Agriculture and Rural Development Banks (PCARDBs):** Operating below SCARDBs, these banks extend long-term credit directly to farmers and rural entrepreneurs for developmental projects. Example: Puttukottai PCARD Bank

Type of Cooperative Bank			Governing Laws	Banking Related Functions regulated by	Cooperative Functions regulated by	
Urban Cooperative Banks	Scheduled UCBs	Single State	State Cooperative Societies Act	Reserve Bank of India (RBI) as per Banking Regulation Act, 1949	Registrar of Cooperative Societies for concerned State	
		Non-Scheduled UCBs				
	Non-Scheduled UCBs	Multi-State	Multi-State Cooperative Societies Act, 2002		Central Registrar of Cooperative Societies	
		Scheduled UCBs				
Rural Cooperative Banks	Short term	State Cooperative Banks (StCBs)	State Cooperative Societies Acts	Not regulated by RBI as Banking Regulations Act, 1949 does not apply to PACS, SCARDBs & PCARDBs		Registrar of Cooperative Societies for concerned State
		District Central Cooperative Banks (DCCBs)				
		Primary Agricultural Credit Societies (PACS)				
	Long term	State Cooperative Agriculture and Rural Development Banks (SCARDBs)				
		Primary Cooperative Agriculture and Rural Development Banks (PCARDBs)				

## Duality of Control

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Banking being a Central subject and co-operatives operating within a State being a State subject under the Constitution, there exists a duality of control on Co-operative Banks.

<b>Banking Related Functions Under Domain of RBI</b>	<b>Cooperative Related Functions Under Domain of the Registrar of Cooperative Societies for Concerned State</b>
1. Regulation of interest rates and loan policies	1. Registration of cooperative societies
2. Licensing of banking operations	2. Elections to Managing Committees
3. Supervision of banking practices (audits, financial health)	3. Protection of members' rights

## Challenges of Cooperative Banks

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1. **Regulatory Compliance:** The dual regulation system sometimes leads to conflicts and confusion, complicating compliance with regulatory norms.
2. **Governance Issues:** Many cooperative banks suffer from poor governance practices, including lack of professional management, political interference.
3. **Capital Adequacy:** Cooperative banks often struggle with maintaining adequate capital buffers to meet regulatory requirements and support growth. This limitation affects their lending capacity and overall financial stability.
4. **Technological Integration:** Compared to commercial banks, many cooperative banks lag in adopting modern banking technologies.
5. **Asset Quality:** Non-performing assets (NPAs) remain a significant issue for cooperative banks, partly due to less stringent lending practices and local economic challenges.

## Steps Taken by Government to Strengthen Cooperative Banks

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1. **Amendment to the Banking Regulation Act:** In 2020, the government amended the Banking Regulation Act to bring cooperative banks under the supervision of the Reserve Bank of India (RBI), similar to commercial banks. This change aims to enhance the safety and soundness of cooperative banks through better regulation and supervision.
2. **Capital Infusion:** The government has provided financial support to strengthen the capital base of weak cooperative banks, enabling them to meet regulatory capital requirements and continue operations.
3. **Training and Capacity Building:** Various programs have been initiated to enhance the skills of personnel in cooperative banks, focusing on governance, risk management, and compliance with regulatory norms.
4. **Consolidation and Merger:** Encouraging mergers among cooperative banks to create stronger entities capable of efficient management and operation on a larger scale has been another strategic move.
5. **Increased Surveillance and Monitoring:** Enhanced monitoring by the RBI ensures that early signs of distress in cooperative banks are identified, and corrective actions are taken promptly.

## Non-Banking Financial Company

As the name suggests, these are financial institutions that operate outside the traditional banking system. NBFCs provide a range of financial services such as loans, credit, investment advice, and wealth management services to individuals and businesses.

The main difference between NBFCs and banks is that while banks accept demand deposits from customers, NBFCs do not take demand deposits and rely on other sources of funding such as time deposits, borrowings from banks, financial markets, and issuing bonds or debentures.

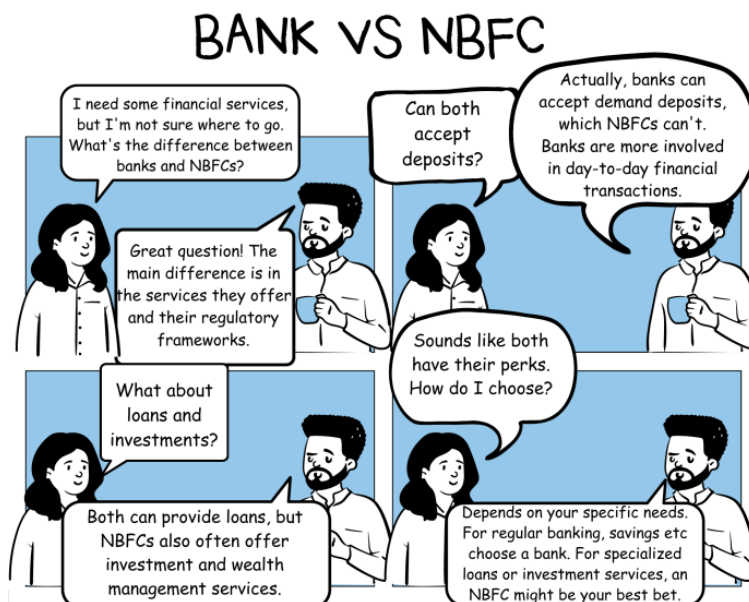
In India, NBFCs play an important role in providing financial services to the unbanked and underserved segments of the population. For example, many small and medium-sized enterprises (SMEs) may not have access to bank loans due to various reasons such as insufficient credit history or collateral. In such cases, NBFCs can step in and provide the necessary financing.

Let me give you some examples of NBFCs in India. Bajaj Finance, L&T Finance, Mahindra Finance, and Shriram Transport Finance are some of the well-known NBFCs in India. These companies provide a variety of financial services to individuals and businesses, such as personal loans, home loans, vehicle loans, and equipment financing.

One important thing to note is that NBFCs are regulated by the Reserve Bank of India (RBI), which sets out various rules and regulations for their operations. For example, NBFCs must maintain a certain level of capital adequacy and adhere to certain prudential norms. The RBI also has the power to supervise and inspect NBFCs to ensure that they are complying with these regulations.

There are several categories of NBFCs based on their activities and regulatory requirements. Here are the main types:

1. **Asset Finance Companies (AFCs):** These NBFCs primarily focus on financing the purchase of physical assets such as vehicles, machinery, and equipment. They provide loans and leases for these assets, and may also offer services like insurance and maintenance. Example: Shriram Transport Finance Company, which provides financing for commercial vehicles.
2. **Investment Companies (ICs):** These NBFCs primarily invest in various types of securities such as stocks, bonds, and mutual funds. They may also offer portfolio management services to their clients. Example: Bajaj Capital, which provides investment advice and manages client portfolios.
3. **Loan Companies (LCs):** These NBFCs primarily provide loans to individuals and businesses. They may specialize in certain types of loans, such as personal loans, business loans, or housing loans.



Example: Bajaj Finserv, which provides a wide range of loans including personal loans, home loans, and business loans.

4. **Infrastructure Finance Companies (IFCs):** These NBFCs primarily focus on financing infrastructure projects such as roads, bridges, airports, and power plants. They provide long-term loans and project financing for these projects. Example: L&T Infrastructure Finance Company, which provides financing for various infrastructure projects.
5. **Microfinance Companies (MFIs):** These NBFCs primarily provide small loans to low-income individuals and businesses. They may also provide other financial services such as savings accounts and insurance. Example: Bandhan Bank, which started as an MFI and now offers a range of banking services.
6. **Systemically Important Core Investment Companies (CICs):** These NBFCs are large and interconnected with the financial system. They are required to follow stricter regulations and have higher capital requirements than other types of NBFCs. Example: Aditya Birla Financial Services Limited.

### Difference between Bank and NBFC

Feature	Bank	NBFC
<b>Definition</b>	A financial institution licensed to receive deposits and make loans.	A company that offers financial services without holding a banking license.
<b>Regulation</b>	Regulated by the RBI	Regulated by the RBI but with different set of guidelines
<b>Deposit Acceptance</b>	Can accept demand deposits.	Cannot accept demand deposits.
<b>Deposit Insurance</b>	Deposits are usually insured up to a certain limit (e.g., DICGC in India).	Deposits are not insured.
<b>Payment and Settlement System</b>	Part of the payment and settlement system. Can issue cheques.	Not a part of the payment and settlement system. Cannot issue cheques.
<b>Branching Norms</b>	Subject to stricter branching norms.	Relatively more lenient branching norms.
<b>Capital Requirement</b>	Generally have higher capital requirement norms.	Might have lower capital requirement norms compared to banks.
<b>Foreign Investment</b>	May have restrictions on foreign investment.	Often have more lenient foreign investment norms.
<b>Priority Sector Lending</b>	Banks are mandated to lend a certain portion to priority sectors.	NBFCs might have different or no such obligations.

### All India Financial Institutions (AIFIs)

All India Financial Institutions (AIFIs) are a group of financial institutions that were set up by the Indian government to provide long-term funding to key sectors of the Indian economy, such as

infrastructure, agriculture, housing, and small-scale industries. These institutions are owned and controlled by the government of India and operate at the national level.

### Small Industries Development Bank of India (SIDBI)

SIDBI was established in 1990 by an Act of Parliament to promote and develop the MSME (Micro, Small and Medium Enterprises) sector in India.

The main objective of SIDBI is to provide financial and non-financial assistance to MSMEs, which play a crucial role in the Indian economy by generating employment opportunities and contributing to GDP growth. SIDBI operates as a principal financial institution for MSMEs in India and provides a range of financial and developmental services to them.

Here are some examples of the services offered by SIDBI:

1. **Direct Financing:** SIDBI offers various types of loans and credit facilities to MSMEs, including working capital loans, term loans, equipment financing, and project financing. These loans are designed to meet the diverse financial needs of MSMEs at different stages of their business lifecycle.
2. **Refinancing:** SIDBI also offers refinancing to banks and other financial institutions that lend to MSMEs. This helps increase the availability of credit to MSMEs and reduces the cost of borrowing for them.
3. **Developmental Services:** In addition to financing, SIDBI also provides various non-financial services to MSMEs such as training and capacity building, market development assistance, technology upgradation, and support for export promotion.
4. **Venture Capital:** SIDBI has also set up a subsidiary called SIDBI Venture Capital Limited (SVCL) that provides venture capital and private equity financing to innovative and high-growth potential MSMEs.
5. **Microfinance:** SIDBI has also promoted the development of microfinance institutions (MFIs) that provide credit and other financial services to low-income households and small businesses in rural and semi-urban areas.

Overall, SIDBI plays a crucial role in the development and growth of the MSME sector in India by providing financial and non-financial support to MSMEs. By doing so, it helps create more jobs, boosts economic growth, and promotes entrepreneurship in the country.

### National Bank for Agriculture and Rural Development (NABARD)

NABARD was established in 1982 by the Government of India to provide financial and developmental support to the agriculture sector and rural areas. NABARD is an apex development bank in India that focuses on the development of rural areas by promoting agriculture, rural entrepreneurship, and rural livelihoods.

NABARD operates as a development bank, which means that it provides credit and other financial services to individuals, organizations, and institutions involved in agriculture and rural development. The bank has a wide range of financial products and services, including credit facilities, investment opportunities, and other development programs.

Let's take a closer look at some of the key areas where NABARD works:

1. **Agriculture Credit:** NABARD provides credit facilities to farmers and rural entrepreneurs to help them meet their financial needs. The bank provides credit through various channels, such as commercial banks, regional rural banks, and co-operative banks.
2. **Rural Infrastructure Development:** NABARD supports the development of rural infrastructure by providing funds for the construction of roads, bridges, irrigation systems, and other essential facilities.
3. **Microfinance:** NABARD supports the development of microfinance institutions (MFIs) that provide financial services to low-income households and small-scale businesses in rural areas. The bank provides loans to these MFIs, which in turn provide credit to their clients.
4. **Sustainable Livelihoods:** NABARD promotes sustainable livelihoods in rural areas by supporting the development of agriculture, fisheries, and other rural livelihoods. The bank provides technical assistance and training to farmers and rural entrepreneurs to help them improve their productivity and income.

Here are a few examples of how NABARD has helped farmers and rural entrepreneurs:

1. NABARD provided financial support to a group of women farmers in Bihar to help them start a poultry farm. The bank provided them with credit facilities, technical assistance, and training to help them manage their farm and improve their income.
2. NABARD supported the construction of a rural road in a village in Rajasthan. The road helped farmers transport their produce to the market and improved their access to essential services such as healthcare and education.
3. NABARD provided credit to a microfinance institution in Tamil Nadu to help them provide financial services to small-scale businesses in the area. The microfinance institution was able to provide loans to local entrepreneurs, helping them start and expand their businesses.

In summary, NABARD is an important development bank in India that focuses on the development of agriculture and rural areas. The bank provides credit, financial services, and technical assistance to farmers and rural entrepreneurs to help them improve their livelihoods.

## Export-Import Bank of India

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Exim Bank is a specialized financial institution that provides financial assistance to Indian exporters and importers. It was established in 1982 by the Indian government to promote international trade by providing financial assistance and advisory services to exporters and importers.

Exim Bank provides a wide range of financial services to Indian exporters and importers, including pre-shipment and post-shipment finance, export credit, export credit guarantees, overseas investment finance, and lines of credit to foreign governments and entities.

To give you an example, let's say a small Indian manufacturer wants to export their goods to a foreign country but does not have enough funds to finance the shipment. They can approach Exim Bank for financial assistance and avail of pre-shipment finance, which will provide them with the necessary funds to produce and ship the goods. Similarly, if an Indian importer wants to import goods from a foreign country, they can approach Exim Bank for post-shipment finance to pay for the goods after they have been received.

Exim Bank also provides export credit guarantees to Indian exporters to protect them against the risk of non-payment by foreign buyers. This helps exporters to expand their business by reducing their risk exposure while exporting their goods.

In addition to these services, Exim Bank also provides advisory services to Indian exporters and importers. For example, they offer market intelligence reports, export counseling, and trade information services to help Indian businesses make informed decisions and expand their international trade.

### National Housing Bank (NHB)

The National Housing Bank is a financial institution in India that was established in 1988 under the National Housing Bank Act. It was created to provide financial support to the housing sector in India, promote home ownership, and regulate housing finance companies.

One of the main functions of the NHB is to provide refinancing facilities to banks and housing finance companies. Refinancing refers to the process of providing loans to financial institutions so that they can then lend to individuals or businesses. In the case of the NHB, it provides refinancing specifically for the housing sector.

For example, if a bank provides a home loan to an individual, it can then seek refinancing from the NHB to support its lending activities. This helps to ensure that there is sufficient funding available for the housing sector, which in turn promotes home ownership and the development of the housing industry.

Another function of the NHB is to regulate housing finance companies in India. This involves setting standards for their operations, such as the minimum capital requirements and prudential norms for lending. By regulating these companies, the NHB aims to promote the stability and sustainability of the housing finance industry.

In addition, the NHB also provides technical assistance and training to housing finance companies, and conducts research and analysis to support the development of the housing sector.

### Micro Units Development and Refinance Agency (MUDRA)

MUDRA was launched in 2015. The main aim of Mudra is to provide financial assistance to small and micro-businesses in the country, which often struggle to get loans from traditional banks due to lack of collateral or credit history.

Mudra offers loans ranging from Rs. 50,000 to Rs. 10 lakh to these small businesses, with the objective of promoting entrepreneurship, job creation, and economic growth in the country. The loans are categorized into three types - Shishu, Kishor, and Tarun - based on the stage of the business and the amount of loan required.

- **Shishu:** Loans up to Rs. 50,000, for businesses that are in their initial stages and require small amounts of capital to get started.
- **Kishor:** Loans ranging from Rs. 50,000 to Rs. 5 lakh, for businesses that have already been established but require additional capital to expand their operations.
- **Tarun:** Loans ranging from Rs. 5 lakh to Rs. 10 lakh, for businesses that are well-established and need a significant amount of capital for growth and expansion.



One of the unique features of Mudra loans is that they do not require collateral or a guarantor, making it easier for small businesses to obtain credit.

For example, let's say a woman in a small village wants to start her own tailoring business. She has the skills but lacks the funds to purchase a sewing machine and raw materials. She can approach a Mudra-approved lender and apply for a Shishu loan of up to Rs. 50,000 without providing any collateral or guarantor. Once approved, she can use the loan to purchase the necessary equipment and materials to start her business. With her new business up and running, she can repay the loan in affordable installments, which will not only help her grow her business but also contribute to the local economy.

## National Bank for Financing Infrastructure and Development (NaBFID)

NaBFID was established in 2021 by the Government of India (The National Bank for Financing Infrastructure and Development Act, 2021) as a principal development financial institution to accelerate and enhance the financing of infrastructure projects across the country. With a focus on bridging the critical infrastructure financing gap, NaBFID is poised to play a significant role in India's ambition to become a \$5 trillion economy by fostering sustainable infrastructure growth.

### Key Functions and Roles:

1. **Direct Financing:** NaBFID provides long-term debt financing to various infrastructure sectors including transportation (roads, bridges, metros), energy (renewable and non-renewable sources), water (sanitation and water supply projects), and social infrastructure (hospitals, schools).
2. **Indirect Financing:** It also offers credit enhancements and partial credit guarantees to lower the risk for other lenders, encouraging them to invest in infrastructure projects. It works to attract domestic and international capital by providing financial instruments that mitigate risks associated with infrastructure projects.
3. **Market Development:** Actively works on developing financial instruments such as infrastructure debt funds and municipal bonds to deepen the infrastructure financing market.
4. **Promotion of Green Infrastructure:** Committed to sustainable development, NaBFID is actively involved in financing green infrastructure projects that align with India's commitments under the Paris Agreement. This includes renewable energy projects like solar and wind power installations among others.

### Some Impactful Initiatives:

- **Renewable Energy Project:** NaBFID financed the installation of a 300 MW solar power plant in Karnataka.
- **Urban Infrastructure:** NaBFID has been instrumental in financing metro projects in cities like Pune and Ahmedabad.
- **Funding was provided for a major expressway project connecting Delhi and Chandigarh.**
- **Port Development:** NaBFID contributed to the expansion of the Paradip Port in Odisha.
- **Social Infrastructure:** NaBFID financed the construction of multi-specialty hospitals in underserved areas of Northeast India.

NaBFID is a key institution in India's infrastructure landscape, playing a dual role of financier and developer to promote and implement infrastructure projects that are crucial for national development.



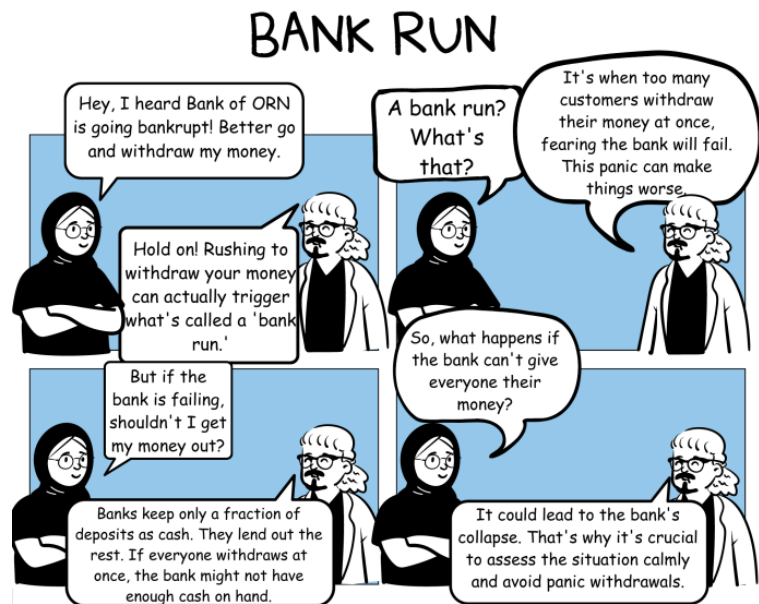
Its strategic interventions are designed to ensure long-term economic benefits and sustainability, supporting India's journey towards becoming a globally competitive economy.

## Understanding Financial Position of a Bank

### Bank Run

A bank run occurs when many depositors (people who have put their money into a bank) suddenly and rapidly withdraw their money from the bank. This can be caused by rumors or fears that the bank may not be able to fulfill its obligations to its depositors, which can lead to a loss of confidence in the bank.

When many people try to withdraw their money from a bank at the same time, it can create a vicious cycle. The first few people to withdraw their money might be able to get their money out without any problems, but as more people try to do the same thing, the bank may not have enough cash on hand to give everyone their money back.



If a bank run is not handled properly, it can lead to the bank failing and potentially causing a wider financial crisis. This happened during the Great Depression in the United States, when many banks failed due to bank runs and a lack of government intervention.

Let's look at an example to illustrate how a bank run might happen. Imagine that a rumor starts spreading in a small town that Bank A is in financial trouble and might not be able to pay back its depositors. This rumor causes a few people to start withdrawing their money from the bank. As more people hear about the rumor and start withdrawing their money as well, the bank's cash reserves start to dwindle.

To try to stop the bank run, Bank A might place limits on how much money each person can withdraw or ask the government for help. However, if these measures are not effective or if the rumors continue to spread, the bank run could continue until the bank fails.

### Capital Adequacy Ratio (CAR)

Capital Adequacy Ratio (CAR) is a measure of a bank's financial strength and ability to withstand financial losses. It is a ratio of a bank's capital to its risk-weighted assets. CAR ensures that banks have enough capital to absorb unexpected losses and protect their depositors' funds.

## CAR = (Tier I Capital + Tier II Capital) / Risk-Weighted Assets

Where:

- Tier I Capital includes equity capital, disclosed reserves, and other instruments that are considered the most reliable and permanent sources of a bank's capital.
- Tier II Capital includes subordinated debt, undisclosed reserves, revaluation reserves, general provisions, and hybrid instruments.

CAR is also known as the **capital-to-risk weighted assets ratio (CRAR)**

Risk-Weighted Assets (RWA) are calculated by assigning a risk weight to each asset class based on its credit risk. For example, loans to a corporate borrower may have a higher risk weight than loans to a government entity.

Now let's look at an example to understand how CAR works:

Suppose Bank A has a Tier I Capital of INR 100 crore, Tier II Capital of INR 50 crore, and Risk-Weighted Assets of INR 1000 crore.

Then, Bank A's CAR will be calculated as follows:

$$\begin{aligned}\text{CAR} &= (\text{Tier I Capital} + \text{Tier II Capital}) / \text{Risk-Weighted Assets} \\ &= (\text{INR } 100 \text{ crore} + \text{INR } 50 \text{ crore}) / \text{INR } 1000 \text{ crore} \\ &= 15\%\end{aligned}$$

This means that Bank A has a capital buffer of 15% of its risk-weighted assets to absorb any unexpected losses.

The Reserve Bank of India (RBI) plays a crucial role in ensuring that banks maintain an adequate CAR. The RBI sets the minimum CAR requirement for banks in India. Indian public sector banks must maintain a CAR of 12% while Indian scheduled commercial banks are required to maintain a CAR of 9%. The RBI also conducts regular stress tests to assess the ability of banks to withstand adverse economic conditions. If a bank's CAR falls below the minimum requirement, the RBI may take corrective actions, such as restricting dividend payouts or requiring the bank to raise additional capital.

## Basel Norms

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Basel norms are a set of international banking regulations that were developed by the Basel Committee on Banking Supervision. The aim of these norms is to promote financial stability by providing a framework for banks to manage financial risks.

**Basel I:** Basel I, introduced in 1988, was the first set of Basel norms. It established the minimum capital requirements for banks based on their credit risk. Banks were required to hold capital equal to at least 8% of their risk-weighted assets.

**Basel II:** Basel II, introduced in 2004, was an updated set of regulations that focused on improving the accuracy of risk assessment by banks. It introduced three pillars of risk management:

- Pillar 1: Minimum capital requirements based on credit risk, operational risk, and market risk.
- Pillar 2: Supervisory review of a bank's risk management framework and internal controls.
- Pillar 3: Disclosure requirements for a bank's risk profile and risk management practices.

**Basel III:** Basel III, introduced in 2010, was a response to the global financial crisis of 2008. Its main aim was to strengthen the banking system's ability to deal with financial shocks. Basel III introduced a number of measures to improve the quality and quantity of capital that banks hold, as well as their liquidity and risk management practices. The key parameters of Basel III are:

- **Capital Adequacy Ratio (CAR):** This measures a bank's capital as a percentage of its risk-weighted assets. Banks are required to hold a minimum CAR of 8%, but some regulators require higher levels.
- **Liquidity Coverage Ratio (LCR):** This measures a bank's ability to withstand a short-term liquidity shock. It requires banks to hold a minimum amount of high-quality liquid assets to meet their obligations for a period of 30 days.
- **Net Stable Funding Ratio (NSFR):** This measures a bank's long-term funding stability. It requires banks to maintain a minimum amount of stable funding sources to ensure they can meet their obligations for a longer period of time.
- **Leverage Ratio:** This measures a bank's capital against its total exposure, without applying risk weights. It provides a simple measure of a bank's leverage and acts as a backstop to the risk-weighted measures.

Implementation: Each country has its own regulator that is responsible for implementing the Basel norms. Regulators have the power to set higher minimum standards than those set by the Basel Committee, and they can impose additional requirements as necessary.

In summary, Basel norms are a set of international banking regulations that aim to promote financial stability by providing a framework for banks to manage financial risks. The norms have evolved over time, with Basel I establishing minimum capital requirements, Basel II introducing three pillars of risk management, and Basel III introducing a number of measures to improve the quality and quantity of capital that banks hold, as well as their liquidity and risk management practices. The implementation of the norms is the responsibility of each country's regulator.

## India and Basel

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India is a member of the Basel Committee on Banking Supervision and has implemented the Basel norms to improve the stability of its banking system. The Reserve Bank of India (RBI) has been actively involved in implementing the Basel norms in India.

### Achievements:

1. **Compliance with Basel I norms:** India implemented the Basel I norms in 1999 and has since then made significant progress in adopting the Basel II and III norms.

2. **Higher capital adequacy ratio:** The Reserve Bank of India (RBI) has set a higher minimum capital adequacy ratio (CAR) than the global minimum of 8%. Indian public sector banks must maintain a CAR of 12% while Indian scheduled commercial banks are required to maintain a CAR of 9%.
3. **Implementation of LCR and NSFR:** The RBI has introduced guidelines for liquidity coverage ratio (LCR) and net stable funding ratio (NSFR) for Indian banks to ensure their resilience against short-term and long-term liquidity shocks.
4. **Improved risk management practices:** The Basel norms have helped Indian banks to improve their risk management practices, including better assessment of credit risk, operational risk, and market risk.

### Challenges:

1. **Compliance for smaller banks:** Smaller banks in India may face challenges in complying with the Basel norms due to limited resources and technical capabilities.
2. **Weaknesses in credit risk management:** Some Indian banks still face challenges in credit risk management, which may lead to high levels of non-performing assets (NPAs) and stress on their balance sheets.
3. **Limited adoption of Basel III norms:** While India has made significant progress in adopting the Basel III norms, there are still some gaps in their implementation, such as in the areas of leverage ratio and counterparty credit risk.

### Non-Performing Assets (NPAs)

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Non-Performing Assets (NPA) are loans or advances extended by banks and financial institutions that have stopped generating income or interest for the lender because the borrower has stopped making payments. In other words, when a borrower defaults on their loan repayment for a period of 90 days or more, the loan is classified as an NPA.

Category	Definition
<b>Sub-Standard Assets</b>	A sub-standard asset is one that has remained NPA for a period less than or equal to 12 months.
<b>Doubtful Assets</b>	A doubtful asset is one that has remained in the sub-standard category for 12 months or more.
<b>Loss Assets</b>	A loss asset is one where the bank or financial institution has deemed it impossible to recover the outstanding amount, either through foreclosure or other means.

The main reason why NPAs are a cause for concern is because they can have a significant impact on the financial health of banks and financial institutions. When a large number of loans become NPAs, it can lead to a decline in the profits of the bank or financial institution, and in some cases, can even threaten their solvency.

### NPA Ratio = Gross NPAs / Gross Advances

The NPA ratio is a commonly used metric to measure the level of NPAs in a bank or financial institution. The gross NPAs represent the total value of loans that have been classified as NPAs, while gross advances represent the total value of loans extended by the bank or financial institution.

## NPA crisis in India

In India, the NPA crisis began in the early 2010s and has been a major problem for the banking sector ever since. The crisis arose due to several reasons:

1. **Economic slowdown:** One of the main reasons for the NPA crisis in India is the economic slowdown that the country has been experiencing. When the economy is not doing well, businesses and individuals struggle to repay their loans. This results in banks accumulating a large number of bad loans.
2. **Fraud and malpractices:** Another reason for the NPA crisis is the prevalence of fraud and malpractices in the banking sector. Some borrowers have taken loans with no intention of repaying them or have diverted the funds for other purposes. In other cases, banks themselves have been involved in fraudulent activities such as giving loans to ineligible borrowers or inflating the value of collateral.
3. **Inadequate risk management:** Banks are supposed to assess the risk associated with lending to a particular borrower and take adequate measures to mitigate the risk. However, in some cases, banks have not done a good job of assessing the risk, resulting in loans turning bad.

### Adverse effects of the NPA crisis on the banking sector and the economy:

- Banks have to set aside a certain amount of money as provisions for NPAs, which reduces their profitability and affects their ability to lend further.
- The overall credit culture of the country is affected when a large number of loans turn bad, causing banks to become cautious about lending and making it difficult for borrowers to get loans.
- Investment and growth are affected as a result of reduced lending by banks.
- The government may have to provide financial assistance to banks to help them deal with the NPA crisis, which can put a strain on the government's finances.
- The reputation of the banking sector is damaged, which can reduce public trust and confidence in the sector.
- The NPA crisis can also lead to job losses and a slowdown in economic activity, as businesses that are unable to repay their loans may have to shut down.

### Initiatives to tackle NPA crisis in India

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**1. Debt Recovery Tribunals (DRTs):** These are special courts set up to handle cases related to the recovery of bad loans. The DRTs were established in 1993 and were given powers to seize and sell the assets of the defaulters. This helped banks to recover some of their bad loans.

For example, if a borrower had taken a loan to buy a house and had defaulted on payment, the DRTs could seize the house and sell it to recover the loan amount.

**2. Lok Adalats:** These are informal courts where disputes related to recovery of bad loans can be settled out of court. Lok Adalats were established in 1987 and were given powers to settle cases through mediation and conciliation. This helped in reducing the burden on the courts and also helped banks to recover their bad loans faster.

For example, if a borrower had defaulted on payment of a loan, the bank could approach a Lok Adalat to settle the case out of court. The Lok Adalat could then mediate between the borrower and the bank and come up with a mutually agreed upon settlement plan.

**3. SARFAESI Act 2002:** The Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest (SARFAESI) Act was passed in 2002 to give more powers to banks and financial institutions to recover bad loans. The act gave banks the power to seize and sell the assets of defaulters without going to court.

For example, if a borrower had defaulted on payment of a loan, the bank could use the SARFAESI Act to seize and sell the assets pledged as collateral to recover the loan amount.

**4. Asset Reconstruction Companies (ARCs):** These are companies set up to buy bad loans from banks and financial institutions at a discount and then try to recover them. ARCs were set up in India in 2003 to help banks get rid of their bad loans and also to inject liquidity into the system.

For example, if a bank had a bad loan of Rs. 100 crore, an ARC could buy it for Rs. 70 crore and then try to recover the loan amount from the borrower. This helped banks to clean up their balance sheets and focus on lending to good borrowers.

**5. Mission Indradhanush:** The Mission Indradhanush was launched by the Indian government in 2015 with the aim of cleaning up the banking system and reducing the number of NPAs. The mission has seven main components, which can be remembered by the acronym ABCDEFG:

**A - Appointments:** Besides induction of talent from the Private Sector into the public banks, separation of the posts of Chief Executive Officer and the Managing Director, in order to check the excessive concentration of power and smooth functioning of the banks.

**B - Bank Board Bureau (BBB):** This involves setting up a board to oversee the functioning of public sector banks and improve their governance. The BBB is responsible for appointment of directors, setting up of remuneration policies and helping banks with mergers and acquisitions.

**C - Capitalisation:** This involves providing adequate capital to public sector banks so that they can absorb the losses arising from NPAs. The government has provided capital to banks in multiple tranches since the launch of the mission.

**D - De-stressing:** This involves measures to reduce stress on banks due to NPAs. This includes setting up of asset reconstruction companies, creation of a market for distressed assets and strengthening of debt recovery tribunals.

**E - Empowerment:** This involves empowering banks to take quick and effective decisions to resolve NPAs. Banks have been given more autonomy to take decisions on resolution of NPAs and the Insolvency and Bankruptcy Code (IBC) was enacted to provide a time-bound resolution framework for NPAs.

**F - Frameworks:** This involves putting in place a robust regulatory framework to prevent the recurrence of NPAs in the future. Measures such as enhanced supervision, stricter lending norms and effective fraud detection systems have been put in place to prevent NPAs.

**G - Governance reforms:** This involves reforms in the governance structure of public sector banks. Measures such as setting up of a Banks Board Bureau and implementation of a performance-based incentive scheme have been taken to improve the functioning of public sector banks.

**6. Insolvency and Bankruptcy Code 2016:** This is a law that was passed in 2016 to provide a time-bound and efficient resolution process for bankruptcy cases. The code aims to consolidate the existing bankruptcy laws in India and provide a clear framework for resolving insolvency cases.

For example, if a company had accumulated a large amount of debt and was unable to repay it, the Insolvency and Bankruptcy Code provides a process for the company to be declared insolvent and for its assets to be sold off to repay its creditors.

**7. Bad Bank:** In August 2020, the government of India announced the creation of a 'Bad Bank' to address the NPA crisis in the country. The Bad Bank is essentially a platform that will buy bad loans from banks at a discounted price and then work to recover them. The idea behind the Bad Bank is to allow banks to offload their bad loans and focus on their core business of lending.

In essence, a Bad Bank is an ARC owned mainly by the Government.

For example, if a bank had a bad loan of Rs. 100 crore, the Bad Bank could buy it for Rs. 70 crore and then work to recover the loan amount from the borrower. This would help the bank to clean up its balance sheet and focus on lending to good borrowers.

## Committees on Banking Sector Reforms

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**1. Narasimham Committee I (1991):** The committee was formed in 1991 to review the banking system in India. Some of its major recommendations were:

- Reduction of Statutory Liquidity Ratio (SLR) and Cash Reserve Ratio (CRR)
- Liberalization of the banking sector
- Establishment of Asset Reconstruction Companies (ARC)

The committee also recommended the establishment of a Board for Financial Supervision (BFS) to oversee the functioning of banks.

**2. Narasimham Committee II (1998):** The committee was formed in 1998 to review the progress of banking sector reforms. Its major recommendations were:

- Reduction of the government's stake in public sector banks to below 33%
- Establishment of a Credit Information Bureau (CIB)
- Creation of a separate Debt Recovery Tribunal (DRT) for speedy recovery of bad loans

The committee also recommended the introduction of prudential norms for income recognition, asset classification, and provisioning.



**3. Raghuram Rajan Committee (2008):** The committee, chaired by Raghuram Rajan, was formed in 2008 to review the financial sector of India and recommend reforms for its enhancement and stability. Its major recommendations were:

- Recommended the creation of a Financial Sector Development Council to oversee regulatory and developmental functions of the financial sector.
- Advocated for the liberalization of financial services including the increased participation of foreign and private entities.
- Emphasized expanding access to financial services across the population, aiming to include underserved segments of society.

**4. Financial Sector Legislative Reforms Commission (FSLRC, 2011):** Established in 2011 headed by Justice B. N. Srikrishna, the FSLRC was tasked with reviewing and redrafting the legal and institutional structures of the Indian financial sector. Its major recommendations were:

- Proposed the creation of a unified financial agency to consolidate the regulatory roles of various sectoral agencies.
- Recommended implementing stronger consumer protection laws with an emphasis on transparency and accountability.
- Suggested setting up a financial redressal agency to address consumer grievances efficiently.

**5. P.J. Nayak Committee (2014):** Formed in 2014, the committee aimed to review the governance of bank boards in India, focusing particularly on public sector banks. Its major recommendations were:

- Recommended reducing the government's stake in public sector banks to below 50% to enhance their governance and operational flexibility.
- Proposed the creation of a Bank Boards Bureau to oversee the appointment of directors and advice on strategy and capital raising.

**6. Nachiket Mor Committee (2014):** The committee was established in 2014 to propose measures for achieving comprehensive financial inclusion in India. Its major recommendations were:

- Universal Bank Accounts: Aimed for every Indian adult to have a bank account by 2016.
- Recommended the establishment of payment banks to facilitate higher financial inclusion by providing small savings accounts and payment/remittance services.

**7. Bimal Jalan Committee (2019):** Formed in 2019, the Bimal Jalan Committee was tasked with reviewing the economic capital framework of the Reserve Bank of India (RBI). Its major recommendations were:

- Recommended that the RBI maintains an optimal level of reserves to safeguard against financial stability risks.
- Proposed a revised framework for the distribution of surplus funds between the RBI and the government, to ensure financial stability and provide fiscal resources for the government.



## Financial Inclusion

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Financial inclusion is the process of providing access to financial services and products to all sections of society, including those who are economically marginalized and financially excluded. In India, financial inclusion is considered to be a critical tool for poverty alleviation, social inclusion, and economic development.

Here are a few reasons why financial inclusion is significant in India:

1. **Promoting Financial Empowerment:** By providing access to financial services and products such as savings accounts, loans, and insurance, financial inclusion can help individuals and families improve their economic well-being, build assets, and become more financially empowered.
2. **Boosting Entrepreneurship:** Financial inclusion can also boost entrepreneurship by providing access to credit, which can help small businesses grow and create more employment opportunities.
3. **Promoting Digitalization:** Financial inclusion can help promote the use of digital transactions, which can make financial transactions more convenient, secure, and efficient. This can help reduce corruption and promote transparency in financial transactions.

### *Challenges in achieving financial inclusion*

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1. **Low Financial Literacy:** Financial literacy levels in India are relatively low, particularly in rural areas. This makes it difficult for people to understand and use financial products and services.
2. **Limited Access to Formal Financial Services:** Many individuals and families, particularly those living in rural areas, do not have access to formal financial services such as banks and insurance companies. This limits their ability to save, invest, and access credit.
3. **High Cost of Delivery:** The cost of delivering financial services to remote and underserved areas can be high, making it difficult for financial institutions to operate profitably in these areas.
4. **Lack of Trust:** Many people in India do not trust formal financial institutions, which can make it difficult to promote financial inclusion.
5. **Inadequate Infrastructure:** The lack of adequate physical and digital infrastructure, such as roads and internet connectivity, can also make it difficult to deliver financial services to remote areas.

### *Measures taken to promote Financial Inclusion*

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1. **Pradhan Mantri Jan Dhan Yojana:** This is a government scheme launched in 2014 with the aim of providing access to banking facilities to the unbanked population. Under this scheme, individuals can open a bank account with zero balance and also receive a Rupay debit card and insurance cover.
2. **Pradhan Mantri Mudra Yojana:** This scheme aims to provide credit to micro and small enterprises, which may not have collateral to secure loans. The loans are provided by banks and non-banking financial companies (NBFCs) up to Rs. 10 lakh.
3. **Digital India:** The government's Digital India campaign aims to promote the use of digital technology for various services, including financial services. Initiatives like the Unified Payment Interface (UPI) and Bharat Bill Payment System (BBPS) have made it easier for individuals to access and use financial services.

4. **Financial Literacy:** The government also promotes financial literacy among the population, especially in rural areas. Initiatives like the National Centre for Financial Education (NCFE) and Financial Literacy Centres (FLCs) have been set up to educate people on financial management and planning.
5. **Priority Sector Lending:** Banks are required to lend a certain percentage of their loans to priority sectors like agriculture, micro, small, and medium enterprises (MSMEs), and low-income households. This helps to ensure that those who may have been excluded from the formal financial system due to lack of collateral or low income can still access credit.
6. **Microfinance Institutions (MFIs):** Microfinance institutions provide small loans to individuals and small businesses who may not have access to traditional banking services. These loans are typically provided without collateral and at lower interest rates than those offered by moneylenders. MFIs have played a significant role in promoting financial inclusion in India, especially in rural areas.
7. **Banking Correspondents (BCs):** Banking correspondents are individuals or entities authorized by banks to provide basic banking services like deposit and withdrawal of cash, opening of accounts, and remittance services in areas where banks may not have a physical presence. BCs are typically local entrepreneurs who are familiar with the area and the community.
8. **Aadhaar Enabled Payment System (AEPS):** AEPS is a system that allows individuals to access their bank accounts using their Aadhaar number and biometric authentication. This system has helped to make financial services more accessible to individuals who may not have traditional forms of identification or documentation.
9. **JAM Trinity:** The JAM Trinity refers to the integration of three platforms - Jan Dhan Yojana, Aadhaar, and Mobile numbers. By linking these platforms, the government aims to provide seamless and secure access to financial services and benefits like direct benefit transfer (DBT) to eligible beneficiaries.
10. **Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY) and Pradhan Mantri Suraksha Bima Yojana (PMSBY):** These are two government-backed insurance schemes that provide life and accident insurance coverage, respectively, to individuals at a very low premium. These schemes have been designed to provide financial protection to low-income individuals who may not have access to traditional insurance products.



## Initiatives to promote Cashless transactions

1. **Unified Payments Interface (UPI) and BHIM App:** The National Payments Corporation of India (NPCI) launched UPI in 2016, enabling users to perform instant bank transfers through their mobile phones. Building on UPI, the BHIM app was introduced as a user-friendly platform for cashless

transactions. To ensure security during transactions, the BHIM app employs three levels of authentication: device ID and mobile number, bank account sync, and PIN creation.

2. **Core Banking Solutions (CBS):** CBS enables seamless operations across various banks and branches, facilitating cashless transactions for customers across the country.
3. **QR Code Payments:** The promotion of QR code payments has empowered small businesses to accept digital payments with ease.
4. **Direct Benefit Transfers (DBT):** The government offers benefits and subsidies through direct transfers to beneficiaries' bank accounts, reducing cash dependence and enhancing financial inclusion.
5. **Demonetization:** The 2016 demonetization move encouraged people to adopt digital payment methods in the wake of the cash crunch, leading to a significant surge in cashless transactions.
6. **RuPay Cards:** RuPay is a type of debit and credit card payment network introduced by the National Payments Corporation of India (NPCI). As a domestic payment network, RuPay is designed to provide an indigenous and cost-effective alternative to international card schemes like Visa and Mastercard. With seamless integration of all ATMs in the country, RuPay cardholders can also conveniently access cash nationwide.
7. **Aadhaar Enabled Payment System (AePS):** In remote areas with limited banking infrastructure, AePS leverages Aadhaar biometric authentication to enable cashless transactions, promoting financial inclusion.
8. **Merchant Discount Rate (MDR):** The Merchant Discount Rate (MDR) is the fee charged by banks and payment service providers to merchants for accepting digital payments from customers. It covers the costs associated with payment processing, technology infrastructure, and transaction risk. The government has taken measures to regulate the MDR, ensuring fairness and transparency in the cashless transaction ecosystem for merchants accepting digital payments.

By implementing these initiatives and creating a favorable environment for cashless transactions, the Indian government has transformed the country's payment landscape, making digital payments more accessible, secure, and widely adopted across the nation.

## **Additional Terms and Concepts**

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### *Insolvency*

Insolvency occurs when an individual or a company is unable to pay its debts as they come due. It is a financial state where the liabilities exceed the assets, making it impossible to meet financial obligations.

Example: Imagine a small business in India that borrowed money to expand its operations. Due to a downturn in the market, the business's revenue drops significantly, and it can no longer pay its suppliers, employees, and lenders. If the business's liabilities (debts) are ₹10 lakhs but its assets (cash, inventory, equipment) are only worth ₹6 lakhs, it is insolvent. This means the business does not have enough resources to cover its debts.

### *Bankruptcy*

Bankruptcy is a legal process through which an insolvent individual or company seeks relief from some or all of its debts. In this process, the assets of the bankrupt entity may be sold off to repay creditors, and the remaining debts may be discharged or reorganized under the protection of bankruptcy laws.

Example: Continuing with the small business example, if the business decides it cannot recover from its financial troubles, it may file for bankruptcy. In India, this would involve filing a case under the Insolvency and Bankruptcy Code (IBC). The bankruptcy court might then appoint a resolution professional to take control of the business's assets and try to repay the creditors as much as possible. The court might also allow the business to reorganize and come up with a plan to pay off its debts over time. If successful, the business may get a fresh start after resolving its debt issues through the bankruptcy process.

### *Shadow Banking System*

The shadow banking system consists of non-bank financial intermediaries that provide services similar to traditional commercial banks but operate outside normal banking regulations. This includes entities like hedge funds, private equity funds, and investment vehicles.

### *Subprime Lending*

Subprime lending refers to the practice of lending to borrowers who have a higher risk of default due to their poor credit history or low credit scores. These loans often come with higher interest rates to compensate for the increased risk.

Example: A person with a low credit score of 600 wants to buy a house and applies for a home loan. Because of their poor credit history, traditional banks may not approve their loan. However, a subprime lender might offer them a loan with a higher interest rate (e.g., 10% instead of the standard 5%) to compensate for the higher risk of default.

### *D-SIBs (Domestic Systemically Important Banks)*

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Domestic Systemically Important Banks (D-SIBs) are banks whose failure would have a significant impact on the domestic economy due to their size, interconnectedness, and importance in the financial system. These banks are subject to stricter regulatory oversight and higher capital requirements.

Example: In India, the Reserve Bank of India (RBI) identifies certain banks as D-SIBs based on their size and importance to the financial system. For instance, the State Bank of India (SBI), ICICI Bank and HDFC Bank are considered D-SIBs. These banks must hold additional capital buffers and follow more rigorous regulatory standards to ensure their stability and prevent systemic risk.

### *Islamic Banking*

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Islamic banking refers to a system of banking that is consistent with the principles of Islamic law (Sharia). It prohibits the payment or acceptance of interest (riba) and engages in ethical investments and profit-sharing arrangements.

Example: In an Islamic bank, instead of providing a traditional loan with interest, the bank might enter into a profit-sharing agreement with a business. For instance, if an entrepreneur needs funds to start a business, the Islamic bank might provide the capital and agree to share the profits (and losses) with the entrepreneur, rather than charging interest on the loan.

### *SWIFT (Society for Worldwide Interbank Financial Telecommunication)*

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SWIFT is a global network that enables banks and financial institutions to send and receive information about financial transactions in a secure, standardized, and reliable manner. It is not a payment system itself but a messaging system that supports international financial transactions.

Example: Suppose you want to send money from your bank account in India to a friend's account in France. Your bank uses the SWIFT network to send a secure message to your friend's bank, instructing it to credit your friend's account with the specified amount. The SWIFT message contains all necessary details, such as the amount, currency, and account numbers, ensuring a smooth and secure transaction.

### *White Label Banking*

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White label banking refers to financial products or services provided by one bank but branded and marketed under another bank's or company's name. The original bank handles the backend operations, while the branding bank focuses on customer interaction and marketing.

Example: A tech company in India wants to offer digital banking services to its customers but does not have a banking license. It partners with an established bank that provides the necessary banking infrastructure and services. The tech company then brands these services under its own name and offers them to its customers. Customers interact with the tech company's brand, but the underlying banking operations are managed by the partner bank.

In India, for example, ICICI Bank has partnered with Amazon Pay to offer digital banking services. Here's how it works:

- **Backend Banking Services:** ICICI Bank provides the core banking infrastructure, regulatory compliance, and financial services.

- Front-end Branding and Customer Interaction: Amazon Pay, which is a digital payment service by Amazon, brands the banking services and interacts directly with customers.

Service Offering: Amazon Pay ICICI Bank Credit Card: While the card is issued by ICICI Bank, it is marketed and branded as an Amazon Pay product.

### *Bail-Out*

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A bail-out occurs when a government or another entity provides financial assistance to a failing business, bank, or economy to prevent it from collapsing. This financial help usually comes in the form of loans, grants, or direct infusions of capital.

Example: During the 2008 financial crisis, the Indian government provided a bail-out to several public sector banks that were struggling with high levels of bad loans. By injecting capital into these banks, the government helped stabilize them, preventing a broader financial crisis and ensuring that the banks could continue operating and supporting the economy.

### *Bail-In*

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A bail-in is a financial mechanism used to rescue a failing bank by making its creditors and depositors take a loss on their holdings. Instead of using taxpayer money to bail out a bank, a bail-in restructures the bank's debt, turning creditors' debt into equity, effectively transferring the burden of the rescue to the bank's investors.

Example: Suppose a major Indian bank is on the verge of collapse due to bad loans and financial mismanagement. Instead of using government funds to bail out the bank (as in a bailout), a bail-in would involve converting some of the bank's debt into equity. This means that bondholders and large depositors may lose a portion of their investments, but the bank can stay afloat without needing taxpayer money. For instance, in 2020, Yes Bank, an Indian private sector bank, faced a financial crisis, and the restructuring involved a similar mechanism where shareholders took a hit to save the bank.

### *Haircut*

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In the banking context, a haircut refers to the reduction in the value that a bank recognizes for a loan or an asset, typically during a debt restructuring process. This means the bank agrees to accept less than the full value of the loan to facilitate a settlement or to reflect the decreased value of the collateral backing the loan.

Example: Suppose a bank in India has issued a loan of ₹1,000 crores to a large corporation. Due to financial difficulties, the corporation cannot repay the full amount. During the restructuring process, the bank might agree to accept ₹700 crores as full settlement of the loan. This 30% reduction (₹300 crores) is considered a haircut. The bank takes this haircut to recover some of the loan amount rather than risking a complete loss if the corporation defaults or goes bankrupt.

## Previous Years Prelims Questions

1.	<p>With reference to the 'Banks Board Bureau (BBB)', which of the following statements are correct?</p> <ol style="list-style-type: none"><li>1. The Governor of RBI is the Chairman of BBB.</li><li>2. BBB recommends for the selection of heads for Public Sector Banks.</li><li>3. BBB helps the Public Sector Banks in developing strategies and capital raising plans.</li></ol> <p>Select the correct answer using the code given below:</p> <p>(a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3</p>	2022
2.	<p>In India, the Central Bank's function as the "lender of last resort" usually refers to which of the following?</p> <ol style="list-style-type: none"><li>1. Lending to trade and industry bodies when they fail to borrow from other sources</li><li>2. Providing liquidity to the banks having a temporary crisis</li><li>3. Lending to governments to finance budgetary deficits</li></ol> <p>Select the correct answer using the code given below</p> <p>a) 1 and 2 b) 2 only c) 2 and 3 d) 3 only</p>	2021
3.	<p>Consider the following statements:</p> <ol style="list-style-type: none"><li>1. The Governor of the Reserve Bank of India (RBI) is appointed by the Central Government.</li><li>2. Certain provisions in the Constitution of India give the Central Government the right to issue directions to the RBI in the public interest.</li><li>3. The Governor of the RBI draws his power from the RBI Act.</li></ol> <p>Which of the above statements are correct?</p> <p>a) 1 and 2 only b) 2 and 3 only c) 1 and 3 only d) 1, 2 and 3</p>	2021

4.	<p>With reference to Urban Cooperative Banks in India, consider the following statements:</p> <ol style="list-style-type: none"> <li>1. They are supervised and regulated by local boards set up by the State Governments.</li> <li>2. They can issue equity shares and preference shares.</li> <li>3. They were brought under the purview of the Banking Regulation Act, 1949 through an Amendment in 1996</li> </ol> <p>Which of the statements given above is/are correct?</p> <ol style="list-style-type: none"> <li>a) 1 only</li> <li>b) 2 and 3 only</li> <li>c) 1 and 3 only</li> <li>d) 1, 2 and 3</li> </ol>	2021
5.	<p>What is the importance of the term “Interest Coverage Ratio” of a firm in India?</p> <ol style="list-style-type: none"> <li>(1) It helps in understanding the present risk of a firm that a bank is going to give a loan to.</li> <li>(2) It helps in evaluating the emerging risk of a firm that a bank is going to give a loan to.</li> <li>(3) The higher a borrowing firm’s level of Interest Coverage Ratio, the worse is its ability to service its debt.</li> </ol> <p>Select the correct answer using the code given below:</p> <ol style="list-style-type: none"> <li>(a) 1 and 2 only</li> <li>(b) 2 only</li> <li>(c) 1 and 3 only</li> <li>(d) 1, 2 and 3</li> </ol>	2020
6.	<p>Consider the following statements:</p> <p>The Reserve Bank of India’s recent directives relating to ‘Storage of Payment System Data’, popularly known as data diktat, command the payment system providers that</p> <ol style="list-style-type: none"> <li>(1) they shall ensure that entire data relating to payment systems operated by them are stored in a system only in India</li> <li>(2) they shall ensure that the systems are owned and operated by public sector enterprises</li> <li>(3) they shall submit the consolidated system audit report to the Comptroller and Auditor General of India by the end of the calendar year</li> </ol> <p>Which of the statements given above is/are correct?</p>	2019



	<p>(a) 1 only  (b) 1 and 2 only  (c) 3 only  (d) 1, 2 and 3</p>	
7.	<p>Which of the following is not included in the assets of a commercial bank in India?</p> <p>(a) Advances  (b) Deposits  (c) Investments  (d) Money at call and short notice</p>	2019
8.	<p>The Chairman of public sector banks are selected by the</p> <p>(a) Banks Board Bureau  (b) Reserve Bank of India  (c) Union Ministry of Finance  (d) Management of concerned bank</p>	2019
9.	<p>What was the purpose of the Inter Creditor Agreement signed by Indian banks and financial institutions recently?</p> <p>(a) To lessen the Government of India's perennial burden of fiscal deficit and current account deficit  (b) To support the infrastructure projects of Central and State Governments  (c) To act as independent regulator in case of applications for loans of Rs. 50 crore or more  (d) To aim at faster resolution of stressed assets of Rs. 50 crore or more which are-under consortium lending</p>	2019
10.	<p>Which one of the following best describes the term "Merchant Discount Rate" sometimes seen in the news?</p> <p>(a) The incentive given by a bank to a merchant for accepting payments through debit cards pertaining to that bank.  (b) The amount paid back by banks to their customers when they use debit cards for financial transactions for purchasing goods or services.  (c) The charge to a merchant by a bank for accepting payments from his customers through the bank's debit cards.  (d) The incentive given by the Government, to merchants for promoting digital payments by their customers through Point of Sale (PoS) machines and debit cards.</p>	2018

11.	<p>Which one of the following links all the ATMs in India ?</p> <p>(a) Indian banks' Association  (b) National Securities Depository Limited  (c) National Payments Corporation of India  (d) Reserve Bank of India</p>	2018
12.	<p>Consider the following statements:</p> <p>(1) Capital Adequacy Ratio (CAR) is the amount that banks have to maintain in the form of their own funds to offset any loss that banks incur if the account-holders fail to repay dues.  (2) CAR is decided by each individual bank.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2  (d) Neither 1 nor 2</p>	2018
13.	<p>With reference to digital payments, consider the following statements:</p> <p>(1) BHIM app allows the user to transfer money to anyone with a UPI-enabled bank account.  (2) While a chip-pin debit card has four factors of authentication, BHIM app has only two factors of authentication.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2  (d) Neither 1 nor 2</p>	2018
14.	<p>With reference to the governance of public sector banking in India, consider the following statements</p> <p>(1) Capital infusion into public sector banks by the Government of India has steadily increased in the last decade.  (2) To put the public sector banks in order, the merger of associate banks with the parent State Bank of India has been affected.</p> <p>Which of the statements given above is/are correct ?</p>	2018

	<p>(a) 1 only          b) 2 only          (c) Both 1 and 2          (d) Neither 1 nor 2</p>	
15.	<p>What is the purpose of setting up Small Finance Banks (SFBs) in India?</p> <p>(1) To supply credit to small business units          (2) To supply credit to small and marginal farmers          (3) To encourage young entrepreneurs to set up business particularly in rural areas.</p> <p>Select the correct answer using the code given below:</p> <p>(a) 1 and 2 only          (b) 2 and 3 only          (c) 1 and 3 only          (d) 1, 2 and 3</p>	2017
16.	<p>Which of the following is the most likely consequence of implementing the 'Unified Payments Interface (UPI)'?</p> <p>(a) Mobile wallets will not be necessary for online payments.          (b) Digital currency will totally replace the physical currency in about two decades.          (c) FDI inflows will drastically increase.          (d) Direct transfer of subsidies to poor people will become very effective.</p>	2017
17.	<p>The term 'Core Banking Solutions' is sometimes seen in the news. Which of the following statements best describes/describe this term?</p> <p>(1) It is a networking of a bank's branches that enables customers to operate their accounts from any branch of the bank on its network regardless of where they open their accounts.          (2) It is an effort to increase RBI's control over commercial banks through computerization.          (3) It is a detailed procedure by which a bank with huge non-performing assets is taken over by another bank.</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only          (b) 2 and 3 only          (c) 1 and 3 only          (d) 1, 2 and 3</p>	2016

18.	<p>The establishment of 'Payment Banks' is being allowed in India to promote financial inclusion. Which of the following statements is/are correct in this context?</p> <p>(1) Mobile telephone companies and supermarket chains that are owned and controlled by residents are eligible to be promoters of Payment Banks.  (2) Payment Banks can issue both credit cards and debit cards.  (3) Payment Banks cannot undertake lending activities.</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 and 2 only  (b) 1 and 3 only  (c) 2 only  (d) 1, 2 and 3</p>	2016
19.	<p>'Basel III Accord' or simply 'Basel III', often seen in the news, seeks to</p> <p>(a) develop national strategies for the conservation and sustainable use of biological diversity  (b) improve banking sector's ability to deal with financial and economic stress and improve risk management  (c) reduce the greenhouse gas emissions but places a heavier burden on developed countries  (d) transfer technology from developed countries to poor countries to enable them to replace the use of chlorofluorocarbons in refrigeration with harmless chemicals</p>	2015
20.	<p>The terms 'Marginal Standing Facility Rate' and 'Net Demand and Time Liabilities', sometimes appearing in news, are used in relation to</p> <p>(a) banking operations  (b) communication networking  (c) military strategies  (d) supply and demand of agricultural products</p>	2014
21.	<p>What is/are the facility/facilities the beneficiaries can get from the services of Business Correspondent (Bank Saathi) in branchless areas?</p> <p>(1) It enables the beneficiaries to draw their subsidies and social security benefits in their villages.  (2) It enables the beneficiaries in the rural areas to make deposits and</p>	2014

	<p>withdrawals.</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2  (d) Neither 1 nor 2</p>	
22.	<p>The Reserve Bank of India regulates the commercial banks in matters of</p> <p>(1) liquidity of assets  (2) branch expansion  (3) merger of banks  (4) winding-up of banks</p> <p>Select the correct answer using the codes given below.</p> <p>(a) 1 and 4 only  (b) 2, 3 and 4 only  (c) 1, 2 and 3 only  (d) 1, 2, 3 and 4</p>	2013
23.	<p>Consider the following liquid assets:</p> <p>(1) Demand deposits with the banks  (2) Time deposits with the banks  (3) Savings deposits with the banks  (4) Currency</p> <p>The correct sequence of these decreasing order of Liquidity is</p> <p>(a) 1-4-3-2  (b) 4-3-2-1  (c) 2-3-1-4  (d) 4-1-3-2</p>	2013
24.	<p>Priority Sector Lending by banks in India constitutes the lending to</p> <p>(a) agriculture  (b) micro and small enterprises  (c) weaker sections  (d) All of the above</p>	2013

25.	<p>Which of the following grants/ grant direct credit assistance to rural households?</p> <p>(1) Regional Rural Banks (2) National Bank for Agriculture and Rural Development (3) Land Development Banks</p> <p>Select the correct answer using the codes given below:</p> <p>(a) 1 and 2 only (b) 2 only (c) 1 and 3 only (d) 1, 2 and 3</p>	2013
26.	<p>Consider the following statements:</p> <ol style="list-style-type: none"> <li>1. The Self-Help Group (SHG) Programme was originally initiated by State Bank of India by providing microcredit to the financially deprived.</li> <li>2. In an SHG, all members of a group take responsibility for a loan that an individual member takes.</li> <li>3. The Regional Rural Banks and Scheduled Commercial Banks support SHGs.</li> </ol> <p>How many of the above statements are correct?</p> <p>a) Only one b) Only two c) All three d) None</p>	2023

### Previous Years Mains Questions

1.	Pradhan Mantri Jan Dhan Yojana (PMJDY) is necessary for bringing the unbanked to the institutional finance fold. Do you agree with this for financial inclusion of the poor section of the Indian society? Give arguments to justify your opinion.	2016
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#### Answers

1.	B	2.	B
3.	C	4.	B
5.	A	6.	A
7.	B	8.	A
9.	D	10.	C
11.	C	12.	A

13.	A	14.	B
15.	A	16.	A
17.	A	18.	B
19.	B	20.	A
21.	C	22.	D
23.	D	24.	D
25.	C	26.	B





# 12

CHAPTER

FINANCIAL  L  MARKET



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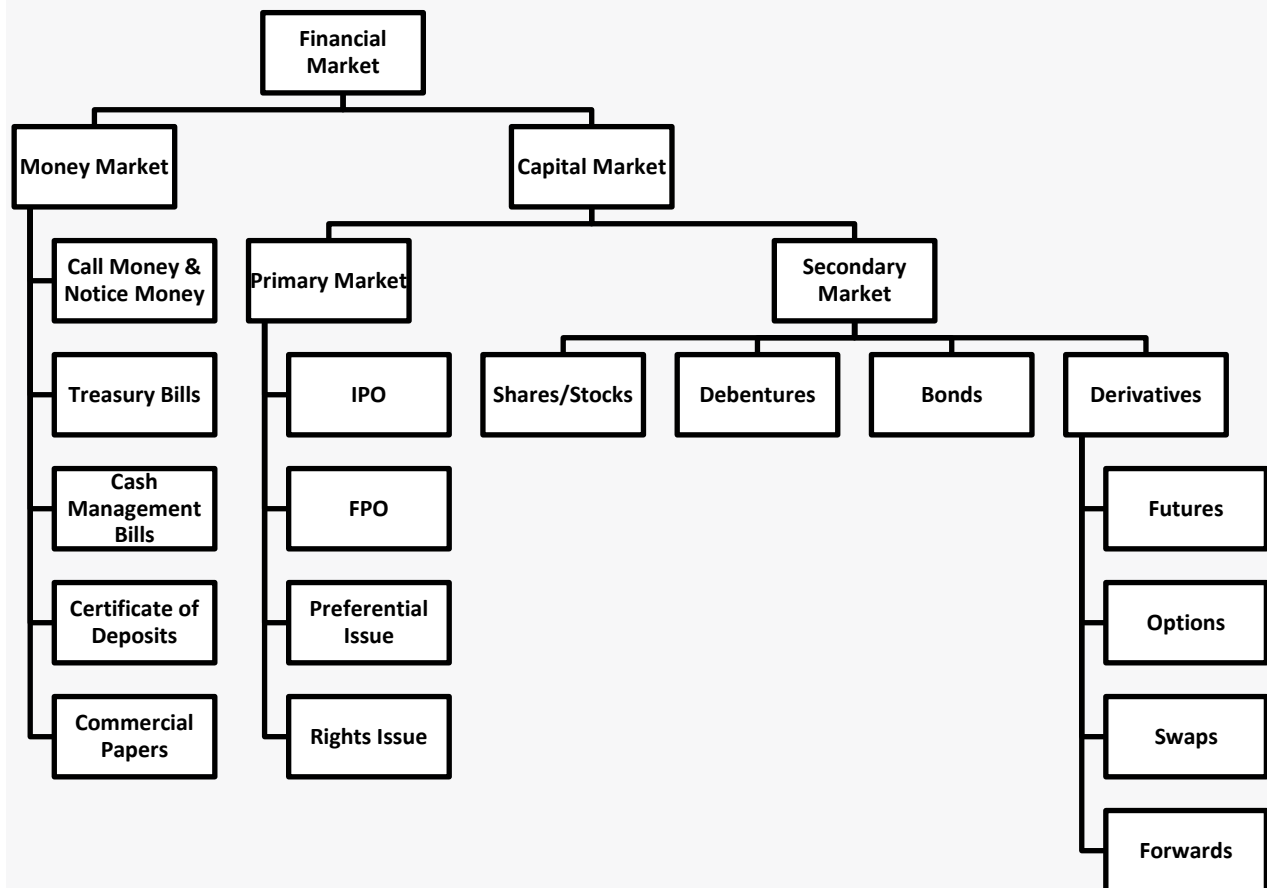
# Chapter 12

## Financial Market

Financial markets are platforms where buyers and sellers trade financial securities, such as stocks, bonds, currencies, and commodities, among others. These markets serve as a medium through which individuals, businesses, and governments can access funds or invest surplus funds in a profitable manner.

### Types of Financial Market

There are two main types of financial markets - the money market and the capital market.



<b>Criteria</b>	<b>Money Market</b>	<b>Capital Market</b>
<b>Meaning</b>	A segment of the financial market that deals with short-term borrowing and lending, typically less than one year.	A segment of the financial market that deals with long-term financing, typically more than one year.
<b>Purpose</b>	Provides a platform for institutions and individuals to manage their short-term liquidity needs.	Provides a platform for companies to raise funds for long-term capital expenditures, such as investment in property, plant, and equipment.
<b>Instruments traded</b>	Treasury bills, commercial paper, certificate of deposit, repurchase agreements, and call money.	Shares, debentures, bonds, securities, and derivatives.
<b>Risk</b>	Low risk as the instruments traded are generally considered safe and are backed by the creditworthiness of the issuer.	Relatively higher risk as the instruments traded are subject to market volatility and depend on the financial performance of the issuing company.
<b>Returns</b>	Typically lower returns due to the lower risk associated with money market instruments.	Can generate higher returns as the investment horizon is longer and there is a higher risk associated with capital market instruments.
<b>Regulatory body</b>	Reserve Bank of India (RBI)	Securities and Exchange Board of India (SEBI)

### Money Market Instruments

<b>Concept</b>	<b>Borrower</b>	<b>Lender</b>	<b>Duration</b>	<b>Example</b>
<b>Call Money</b>	Banks and financial institutions	Banks and financial institutions	Short-term	Borrowing money from other banks and they can ask for it back whenever they want.
<b>Treasury Bill</b>	Government	Investors	Short-term	Giving the government some money for a short time and getting interest.
<b>Commercial Bill</b>	Businesses	Banks	Short-term	Borrowing money from a bank to invest in your business.
<b>Certificate of Deposit</b>	Banks	Investors	Short-term	Putting your money in a bank for a while and getting interest.
<b>Commercial Paper</b>	Companies	Investors	Short-term	Borrowing money people to buy supplies or pay employees.

## Call Money and Notice Money

Call money is a short-term money market instrument that is used for borrowing and lending money in the inter-bank market. It is called "call" money because the lender can demand repayment at any time, or "call" back the money. This makes it a very flexible instrument for banks to manage their short-term liquidity needs. Call money is generally used for overnight transactions, but it can also be extended for a few days.

For example, suppose Bank A has a temporary shortfall of funds, while Bank B has surplus funds that it wants to lend out. Bank A can borrow money from Bank B in the call money market at an agreed interest rate. This rate can change on a daily basis, depending on the demand and supply of funds in the market. At the end of the day, Bank A will have to repay the money to Bank B, along with the agreed interest.

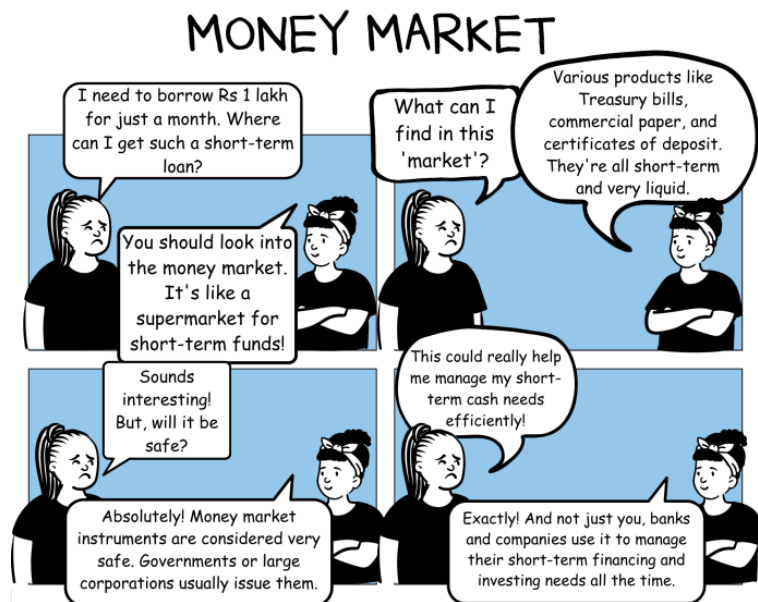
**Notice money**, on the other hand, is similar to call money, but with a slightly longer tenor. It is a short-term money market instrument that is used for borrowing and lending money in the inter-bank market for a fixed period of time, ranging from 2 to 14 days. Notice money transactions are done through a notice, which is given by the lender to the borrower, specifying the date on which the lender wants the money back.

For example, let's say Bank C wants to borrow money from Bank D for 7 days. Bank D can lend the money to Bank C in the notice money market at an agreed interest rate. The notice period gives Bank D a bit more certainty about when it will get its money back, compared to call money.

## Treasury Bills (T-Bills)

Treasury bills, also known as T-bills, are short-term debt securities issued by the Reserve Bank of India (RBI) on behalf of the Government of India. These bills are issued with a maturity period of 14 days, 91 days, 182 days, and 364 days.

The Government of India issues T-bills to raise money to meet its short-term financial requirements. It's important to note that T-bills are considered to be one of the safest investment options as they are backed by the government's creditworthiness.



T-bills are also highly liquid and can be easily traded in the secondary market. They are usually sold through an auction process and can be bought by anyone, including individuals, firms, banks, and other financial institutions.

For example, let's say that the Government of India needs to raise funds to finance some of its short-term expenditures. It decides to issue a 91-day T-bill with a face value of Rs. 1,000. The auction is held, and the T-bill is sold to the highest bidder at a discount. Suppose the highest bidder agrees to pay Rs. 990 for the T-bill. In that case, they will receive the T-bill with a face value of Rs. 1,000 when it matures after 91 days, thereby earning a profit of Rs. 10.

### Cash Management Bills (CMB)

CMBs are short-term debt instruments issued by the Reserve Bank of India (RBI) on behalf of the Government of India to meet its short-term cash needs. The tenure of CMBs usually ranges between 14 days to 91 days.

Like Treasury Bills, CMBs are also auctioned, and the bids are accepted at a discount rate. CMBs can be held till maturity, or they can be traded in the secondary market. CMBs are also issued in electronic form, which makes it easy for investors to buy and sell them.

For example, let's say that the Government of India needs funds to pay for its immediate expenses. It decides to issue a 30-day CMB with a face value of Rs. 10,000. The auction is held, and the CMB is sold to the highest bidder at a discount. Suppose the highest bidder agrees to pay Rs. 9,950 for the CMB. In that case, they will receive the CMB with a face value of Rs. 10,000 when it matures after 30 days, thereby earning a profit of Rs. 50.

### Certificate of Deposits (CDs)

CDs are short-term, negotiable promissory notes issued by banks and financial institutions to raise funds from the market. The tenure of CDs usually ranges between 7 days to 1 year, and they are issued at a discount to face value.

Investors can buy CDs directly from the issuing bank or financial institution, or they can purchase them from the secondary market.

For example, let's say that a bank needs funds to meet its lending requirements. It decides to issue a 90-day CD with a face value of Rs. 1,00,000. The CD is issued at a discount of, say, Rs. 98,000. The investor will receive the face value of Rs. 1,00,000 when the CD matures after 90 days, thereby earning a profit of Rs. 2,000.

### Commercial Papers (CPs)

CPs are unsecured, short-term debt instruments issued by highly rated corporates and financial institutions to raise funds from the market. The tenure of CPs usually ranges between 7 days to 1 year, and they are issued at a discount to face value.



For example, let's say that a highly rated corporate needs funds to meet its working capital requirements. It decides to issue a 60-day CP with a face value of Rs. 1,00,000. The CP is issued at a discount of, say, Rs. 98,500. The investor will receive the face value of Rs. 1,00,000 when the CP matures after 60 days, thereby earning a profit of Rs. 1,500.

## Capital Market

The capital market is a market for long-term funds with a maturity ranging from more than one year. The capital market can be further classified into two segments:

- **Primary Market:** This is the market where new securities are issued by companies for the first time to raise funds. This is also called the new issue market.
- **Secondary Market:** This is the market where existing securities are traded among investors without the involvement of the issuing company. This is also called the stock market or the stock exchange.

Primary Market	Secondary Market
Also known as the "new issue market"	Also known as the "stock exchange" or "secondary market"
Deals with the issuance of new securities to the public for the first time	Deals with the trading of previously issued securities among investors
Securities are sold by the issuer (company, government, etc.) to raise funds	Securities are bought and sold among investors without the involvement of the issuer
Primary market transactions help companies raise capital to fund business operations or expansion	Secondary market transactions provide liquidity to investors by allowing them to buy and sell securities easily
Prices of securities in the primary market are determined by the issuer based on market demand and supply	Prices of securities in the secondary market are determined by market forces of supply and demand
Examples include initial public offerings (IPOs), rights issues, and private placements	Examples include stock exchanges, over-the-counter markets, and electronic trading platforms

## Primary Market Instruments

### Initial Public Offer (IPO)

An Initial Public Offering (IPO) is a process through which a private company becomes a public company by selling its shares to the public for the first time. The company which offers its shares is known as the issuer.

Once the IPO is launched, members of the public can buy shares of the company by subscribing to the offer. If the demand for the shares exceeds the supply, the share price may go up, and if the demand is lower than the supply, the share price may go down.

An example of an IPO is the recent public offering of the Indian food delivery company, Zomato. In July 2021, Zomato launched its IPO and offered its shares to the public. The IPO was oversubscribed, which means that the demand for shares was higher than the number of shares offered. As a result, the share price of Zomato increased on the day of listing, providing significant returns to the investors who subscribed to the IPO.

### Follow on public offer (FPO)

A Follow-on Public Offer (FPO) is a process through which a public company raises additional capital by issuing new shares to the public.

An FPO is different from an IPO as in an IPO, a private company becomes a public company for the first time by issuing shares to the public. However, in an FPO, an already public company raises additional capital by issuing new shares. By issuing additional shares, the ownership of the company is diluted, which means that the existing shareholders will hold a smaller percentage of the company's shares.

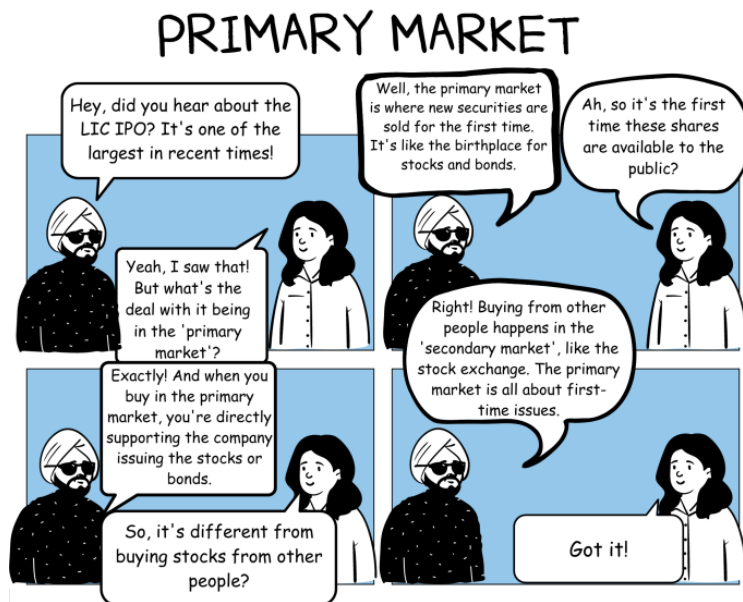
An example of an FPO is the public offering of Reliance Industries Limited in 2020. Reliance Industries Limited had already issued shares and was listed on the stock exchange. In July 2020, the company announced an FPO and raised additional capital by issuing new shares to the public. The funds raised through the FPO were used to reduce the company's debt and for other capital expenditures.

### Preferential Issue

Preferential Issue is a method of raising capital by companies in which they offer shares to select investors on a preferential basis. This means that the shares are issued to a specific group of investors, typically promoters, institutional investors, or high net worth individuals, at a price that is usually lower than the market price.

Preferential issues are usually made to raise capital quickly and to avoid the lengthy and complicated process of a public issue.

An example of a Preferential Issue is the issue by Adani Ports and Special Economic Zone Ltd. In February 2021, the company announced a preferential issue of shares to raise around Rs 3,000 crore. The shares were offered to a group of investors, including a subsidiary of the Qatar Investment Authority, at a price of Rs 800 per share, which was significantly lower than the market price of the shares at that time. The funds raised through this issue were to be used for debt reduction and capital expenditure.



## Rights Issue

A Rights Issue is a method of raising capital by companies by offering its existing shareholders the right to buy additional shares of the company at a discounted price. It's a way for the company to raise funds from its existing shareholders without diluting the ownership percentage of the existing shareholders.

For example, if a company announces a rights issue of 1:3, it means that for every three shares held by a shareholder, they will be offered the right to buy one additional share at a discounted price.

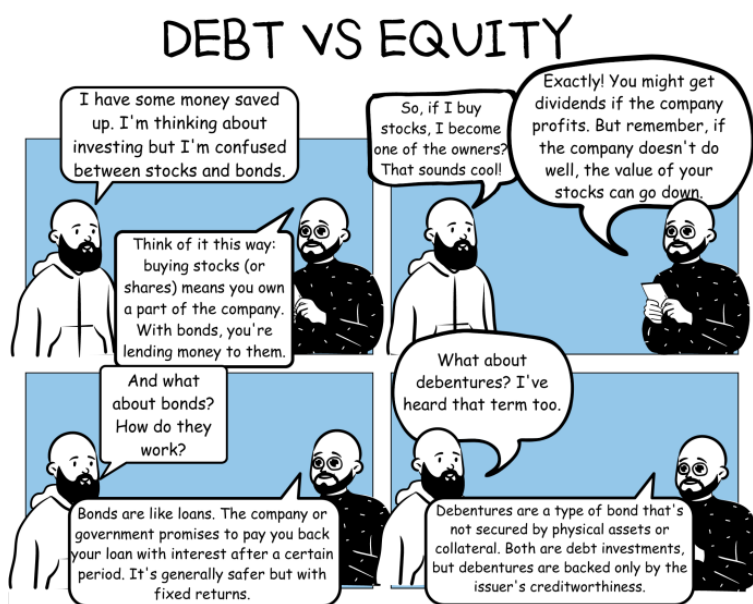
The shareholders have the option to either buy the additional shares or sell their right to buy the shares to other investors. The discounted price at which the shares are offered to the shareholders is usually lower than the current market price, making it an attractive investment opportunity for the shareholders.

An example of a rights issue is the issue by Tata Motors Limited in January 2021. The company announced a rights issue of up to 533.5 million shares to its existing shareholders at a price of Rs. 150 per share, which was a discount of around 10% from the market price at that time. The funds raised through this rights issue were to be used to repay the company's debt and to fund its growth plans.

## Debt and Equity

Financial debt refers to the debt incurred by financial institutions and corporations to finance their operations and investments. This includes loans from banks, corporate bonds, and other debt instruments issued by financial entities.

Non-financial debt, on the other hand, is the debt incurred by non-financial entities such as households, governments, and non-profit organizations. It includes debt related to personal consumption, government expenditures, infrastructure projects, and other non-financial activities.



Aspect	Debt	Equity
<b>Ownership</b>	Debt represents a loan or obligation	Equity represents ownership in a company
<b>Return</b>	Interest payments (coupon)	Variable returns through dividends and capital appreciation
<b>Repayment</b>	Debt must be repaid at maturity	No repayment obligation, perpetual ownership
<b>Risk</b>	Debtholders have priority claim	Equity investors bear higher risk and volatility
<b>Voting Rights</b>	No voting rights for debtholders	Equity shareholders generally have voting rights

<b>Control</b>	No control over company's management	Equity shareholders have control and voting rights
<b>Subordination</b>	Debt holders have priority over equity	Equity holders are subordinated to debt holders in liquidation
<b>Examples</b>	Bonds, Debentures, Money Market Instruments	Stocks, Shares

## Secondary or Stock Market

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This is the market where existing securities are traded among investors.

### Products available in a Secondary Market

#### Shares

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Shares, also known as stocks, are units of ownership in a company. Owning shares in a company entitles the shareholder to a portion of the company's profits, as well as a say in how the company is run through voting rights at shareholder meetings.

When a company wants to raise capital, it can do so by issuing more shares to the public or to institutional investors. These shares can be bought and sold on the stock market, and their value is determined by supply and demand, as well as various other factors such as the company's financial performance and industry trends.

For example, let's say that Company XYZ has issued 100 shares of stock, and you purchase 10 of those shares. You now own 10% of the company, and you are entitled to 10% of the company's profits. If the company's profits increase, your investment in the shares will increase in value, and you may be able to sell your shares for a profit. On the other hand, if the company's profits decrease, the value of your investment in the shares will decrease, and you may end up selling your shares at a loss.

There are two main types of shares - equity shares and preference shares.

1. **Equity Shares:** Equity shares are also known as ordinary shares. They represent ownership in the company and provide shareholders with voting rights and a share in the company's profits. The value of equity shares fluctuates based on the performance of the company and demand and supply in the market. Equity shareholders have the potential to earn higher returns as they are entitled to a share in the company's profits.
2. **Preference Shares:** Preference shares are a type of share that provides fixed dividends to the shareholders before any dividends are paid to equity shareholders. Preference shareholders are given priority over equity shareholders in terms of dividends and repayment of capital in case the company is liquidated. However, they do not have any voting rights, which means they do not have a say in the company's decisions. Preference shares are preferred by investors who seek regular income and are risk-averse as they offer a fixed rate of return.

It's important to note that companies may also issue different classes of shares with varying rights and restrictions, such as non-voting shares or shares with limited voting rights.

## Dividend

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Dividend is a payment made by a company to its shareholders out of its profits or reserves. It is a way for a company to distribute its profits to its owners, the shareholders.

When a company makes a profit, it can decide to either retain the profit within the company or distribute it among its shareholders in the form of a dividend. Companies usually declare dividends at regular intervals, such as quarterly or annually.

Dividends are usually paid on a per-share basis, so the amount of dividend a shareholder receives is proportional to the number of shares they own. For example, if a company declares a dividend of Rs. 5 per share and a shareholder owns 100 shares, then the shareholder will receive Rs. 500 as dividend.

## Debentures

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Debentures are a type of long-term debt instrument issued by companies, which are essentially loans that are paid back with interest at a fixed rate. In other words, debentures are a way for companies to borrow money from investors or the public for a long period of time, usually 10-30 years, to finance their operations or expansion plans.

Unlike equity shares, debenture holders do not have any ownership rights in the company. However, they do have a priority claim on the company's assets in case of liquidation, which means that if the company goes bankrupt, the debenture holders will be paid back before the equity shareholders.

Debentures can be secured or unsecured. Secured debentures are backed by some sort of collateral, such as company assets or property, which gives the debenture holders a greater level of security. Unsecured debentures, on the other hand, are not backed by any collateral and are riskier for the investor.

Debentures can also be convertible or non-convertible. Convertible debentures allow the holder to convert their debentures into equity shares of the company at a predetermined rate, giving them the opportunity to participate in the company's growth potential. Non-convertible debentures, as the name suggests, cannot be converted into equity shares.

An example of debentures would be a company that needs to raise a large amount of capital to build a new factory. Instead of taking out a loan from a bank, the company issues debentures to the public. Investors can then buy these debentures, which will provide the company with the necessary funds. The debenture holders will receive interest payments at a fixed rate and will eventually receive their principal back at maturity.

## Bonds

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Bonds are debt instruments issued by companies, governments, or other organizations to raise capital. When an entity issues a bond, it is essentially borrowing money from investors. In return, the entity agrees to pay the investors interest at a fixed rate, usually annually or semi-annually, until the bond matures. At maturity, the entity repays the principal amount of the bond to the investors.

Some of the common types of bonds include:

1. **Coupon Bonds:** Coupon bonds, also known as **bearer bonds**, are a type of bond that comes with interest coupons attached to them. These bonds are issued by governments, corporations, and other institutions to raise funds for various purposes, such as financing projects or expanding operations.

When you buy a coupon bond, you are essentially lending money to the issuer, who promises to repay the principal amount (the amount you invested) at the bond's maturity date. In addition to the principal repayment, coupon bonds also pay periodic interest payments to bondholders. The interest payments are usually made semi-annually, annually or quarterly and the coupon rate is fixed at the time of issuance.

For example, let's say you bought a coupon bond from XYZ Corporation for Rs. 10,000. The bond has a coupon rate of 5%, which means that you will receive Rs. 500 as interest every year until the bond matures. The bond has a maturity period of 10 years, which means that at the end of 10 years, you will receive the principal amount of Rs. 10,000 along with the final interest payment.

Coupon bonds are tradable securities and can be bought and sold in the secondary market. One important thing to note about coupon bonds is that the coupon rate remains fixed throughout the life of the bond, but the market interest rates may fluctuate. If the market interest rates rise above the bond's coupon rate, the bond may become less attractive to investors, and its market price may decline. On the other hand, if the market interest rates fall below the bond's coupon rate, the bond may become more attractive, and its market price may increase. This relationship between bond prices and market interest rates is known as the bond's price-yield relationship.

2. **Government Bonds:** These are bonds issued by governments to raise funds. They are generally considered to be safe investments because they are backed by the creditworthiness of the government. For example, the Government of India issues bonds such as Sovereign Gold Bonds, Government of India Savings Bonds, etc.
3. **Corporate Bonds:** These are bonds issued by companies to raise funds for their business operations. Corporate bonds generally offer higher interest rates than government bonds but also carry a higher risk of default. For example, Tata Steel issued a 10-year bond with a coupon rate of 8.25% in 2021.
4. **Municipal Bonds:** These are bonds issued by state or local governments to raise funds for public projects such as schools, hospitals, and highways. For example, Municipal Corporation of Greater Mumbai issued municipal bonds worth Rs. 2000 crore in 2021 to fund its infrastructure projects.
5. **Zero Coupon Bonds:** These are bonds that do not pay any interest but are issued at a discount to their face value. The investor earns a return by buying the bond at a discount and receiving the face value at maturity. For example, a zero coupon bond with a face value of Rs. 1,000 may be issued at a discount of Rs. 800. At maturity, the investor receives Rs. 1,000, earning a return of Rs. 200.
6. **Sovereign Gold Bond:** A Sovereign Gold Bond (SGB) is a government security denominated in grams of gold. It offers an alternative to holding physical gold and is aimed at providing investors with the opportunity to invest in gold, without having to worry about the storage and security of physical gold.
  - SGBs are issued by the Reserve Bank of India (RBI) on behalf of the government and are traded on stock exchanges.

- The bonds have a maturity period of 8 years, with an option to exit after the 5th year.
- The price of the bond is determined based on the average closing price of gold of 999 purity for the previous 3 days, as published by the India Bullion and Jewellers Association Limited.
- SGBs offer investors an interest rate of 2.5% per annum, payable semi-annually on the initial investment amount. They also provide capital gains on redemption of the bond based on the prevailing market value of gold.
- Additionally, investors are allowed to use the bonds as collateral for loans.

For example, let's say that an investor wants to invest in gold but does not want to purchase physical gold due to the storage and security concerns. The investor decides to invest in a Sovereign Gold Bond instead. The investor purchases SGBs worth Rs. 50,000 at a price determined based on the average closing price of gold for the previous 3 days. The investor will receive an interest of 2.5% per annum, which will be paid semi-annually. After 8 years, the investor will receive the maturity amount based on the prevailing market value of gold at that time.

7. **Green Bond:** A green bond is a type of bond that is specifically issued to finance projects with environmental benefits.

The concept of green bonds has gained popularity in recent years due to growing concern about climate change and the need for sustainable development.

Green bonds work like other bonds, in that investors purchase the bond and receive regular interest payments until the bond reaches maturity. At maturity, the investor receives the full principal amount of the bond.

For example, a company may issue a green bond to finance the construction of a wind farm.

8. **Masala Bond:** Masala bonds are rupee-denominated bonds issued in offshore markets. They are named "masala" because the term refers to Indian cuisine and the bonds are denominated in Indian rupees. These bonds are issued by Indian companies to raise funds from foreign investors.

Masala bonds are typically issued in overseas financial centers such as London, Singapore, and Hong Kong, and are available to foreign investors who want to invest in the Indian market.

One of the benefits of masala bonds is that they can help Indian companies diversify their investor base by attracting foreign investment without being subject to exchange rate risk.

For example, let's say that an Indian company, XYZ Ltd., wants to raise funds to finance its expansion plans. It decides to issue masala bonds with a face value of Rs. 100 crore, offering a coupon rate of 7% per annum and a maturity period of 5 years. The bonds are issued in London and are subscribed by foreign investors who are looking to invest in the Indian market. The company receives Rs. 100 crore in funds, which it can use for its expansion plans. The investors receive regular interest payments in Indian rupees, and the principal amount is repaid at maturity. Any change in exchange rate during this period does not put additional burden on the company.



9. **Social Impact Bond:** A social impact bond (SIB), also known as a pay-for-success bond, is a financial instrument designed to encourage private investment in social programs that provide measurable social outcomes.

In a social impact bond, private investors provide upfront funding to social service providers, such as non-profits or community organizations, to deliver specific social programs. The government agrees to repay investors only if the social program achieves predetermined outcomes.

For example, let's say that a non-profit organization wants to provide job training to homeless individuals to help them find employment. The non-profit organization needs funding to support the program, but traditional funding sources may not be available. The non-profit organization may turn to a social impact bond to raise the necessary funds.

Private investors would provide the initial funding to the non-profit organization. The government would then agree to repay the investors their initial investment plus a return, but only if the program meets certain predetermined outcomes, such as a 20% increase in employment for the participants. If the program is successful in meeting the predetermined outcomes, the government will repay the investors. If not, the investors may lose some or all of their investment.

10. **Inflation-Indexed Bonds:** Inflation-indexed bonds (IIBs) are a type of bond where the principal value and interest payments are adjusted to account for changes in inflation. These bonds are designed to help protect investors from the erosion of purchasing power caused by inflation. Unlike traditional fixed-rate bonds, the coupon rate of IIBs is lower because it includes an inflation adjustment component.

Here's how inflation-indexed bonds work:

Let's say you purchase an inflation-indexed bond with a face value of ₹10,000 and a fixed interest rate of 2%. Each year, the bond's principal value is adjusted based on the prevailing inflation rate. If the inflation rate for the first year is 3%, the principal value of the bond will be increased by 3% to account for the rise in prices. So, in this case, the principal value after the first year would be ₹10,300. The interest payment for the first year would be 2% of ₹10,300, which is ₹206.

11. **Convertible Bonds:** Convertible bonds are a type of bond that gives the bondholder the option to convert the bond into a predetermined number of the company's common stock shares. It combines the characteristics of both debt and equity instruments.

Here's how convertible bonds work:

Imagine a company issues convertible bonds with a face value of ₹10,000 and a conversion ratio of 10:1. This means that each bond can be converted into 10 shares of the company's common stock.

If the bondholder decides to convert the bond, they can submit the bond and receive 10 shares of the company's common stock in exchange. The conversion can usually be done at any time during the bond's maturity period, as specified in the terms of the bond.



The benefit of convertible bonds is that they offer the potential for both fixed income through the bond's interest payments and the opportunity to participate in the company's growth if the bond is converted into equity. These bonds typically offer a lower interest rate compared to traditional bonds because of the added benefit of potential equity upside.

For example, if the company's stock price rises significantly during the bond's maturity period, the bondholder can choose to convert the bond into shares and benefit from the price appreciation. However, if the stock price does not rise significantly, the bondholder can continue to receive regular interest payments until the bond matures.

## *Bond Prices*

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The price of a bond is the amount you pay to buy the bond. It can fluctuate after the bond is issued, depending on various factors such as interest rates, the bond's credit quality, and market conditions. Bond prices and interest rates have an inverse relationship; when interest rates rise, bond prices usually fall and vice versa. Example:

Let's take a bond with a face value of Rs 1000 and a coupon rate of 5%. This means it pays Rs 50 (5% of Rs 1000) annually. If interest rates increase from 5% to 6% after you buy the bond, new bonds are issued with a 6% interest rate, making your 5% bond less attractive. To sell this bond, you might have to offer it at a price lower than Rs 1000 to make it appealing to buyers seeking the higher 6% yield available on new bonds.

## *Bond Yields*

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Bond yield is a measure of the return an investor will receive by holding the bond until maturity.

Example: Using the same Rs 1000 bond with a 5% coupon rate:

If the bond price drops to Rs 900, the bond yield would be  $\text{Rs } 50 / \text{Rs } 900 = 5.56\%$ .

## *Factors Affecting Bond Prices*

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1. **Interest Rates:** As discussed, there is an inverse relationship between prevailing interest rates and existing bond prices.
2. **Credit Quality:** Bonds are rated based on their credit quality, which reflects the issuer's ability to pay back the bond's principal and interest. Higher-rated bonds (AAA) are seen as safer than lower-rated bonds (BBB or below), which are considered riskier.

Example: Consider a bond issued by a corporation that has recently had a downgrade in its credit rating due to financial difficulty. Investors might sell off this bond fearing potential default, leading to a decrease in its market price.

3. **Inflation Expectations:** Higher inflation tends to erode the purchasing power of a bond's future cash flows, pushing down bond prices.

Example: A bond with a fixed interest payment of Rs 40 annually is bought for Rs 1,000, giving it a 4% yield. If inflation expectations rise to 5% per year, the real purchasing power of the fixed payments diminishes. Investors will seek a higher yield to offset the inflation risk, potentially driving the bond's price down to Rs 800, which would increase the yield to approximately 5%.

4. **Market Demand:** The market dynamics of supply and demand will also influence bond prices. If a bond is highly desired by investors, the price will likely increase.

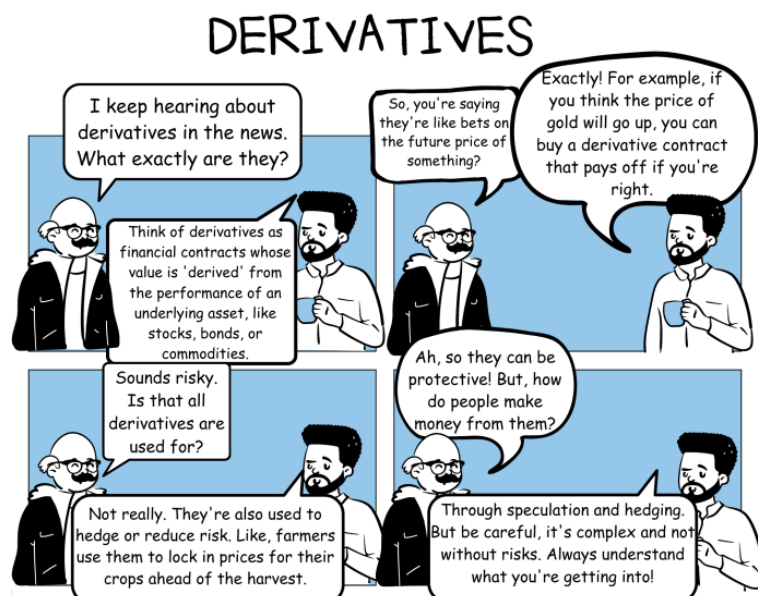
Example: Consider a government issuing bonds for a popular, eco-friendly public transportation project. Due to the project's appeal and the government's stable financial status, these bonds may see high demand. If the bond's initial price is set at Rs 1,000 with a yield of 5%, high demand might push the price up to Rs 1,100, lowering the yield since more investors are willing to accept a lower return for the perceived safety and benefits of the bond.

Concept	Definition	Issued By	Purpose	Return	Voting Rights
<b>Shares</b>	A unit of ownership in a company	Publicly traded companies, Private companies	To raise equity capital for the company	Dividend payments, Capital gains	Voting rights in certain matters.
<b>Bonds</b>	A type of investment where an investor lends money to an entity (e.g. government, corporation) for a fixed period of time.	Governments, Corporations, Municipalities	To raise debt capital for the entity.	Interest payments	No voting rights.
<b>Debentures</b>	A type of bond that is not secured by collateral, and relies solely on the issuer's creditworthiness.	Governments, Corporations, Municipalities	Same as bonds.	Interest payments	No voting rights.

## Derivatives

Derivatives are financial instruments that derive their value from an underlying asset or security. The underlying asset can be anything, like a stock, bond, commodity, currency. The value of a derivative is based on the value of its underlying asset, but it is not the same as owning the asset itself.

There are several types of derivatives, including futures, options, swaps, and forwards. Let's take a closer look at each of them:



## Futures

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Futures are a type of financial instrument that allow individuals or organizations to buy or sell an asset at a predetermined price and time in the future. Futures contracts are legally binding agreements between two parties, where the buyer agrees to purchase a certain quantity of an underlying asset from the seller at a future date, and at a price that is agreed upon today.

Futures are commonly used in financial markets to speculate on the future price movements of assets such as commodities, stocks, and currencies. For example, a farmer may sell a futures contract for their crop harvest to lock in a guaranteed price for their goods. Similarly, an investor may buy a futures contract for a certain stock if they believe that the stock's price will increase in the future.

Futures contracts are standardized and traded on exchanges, such as the National Stock Exchange (NSE) or the Bombay Stock Exchange (BSE) in India. Futures contracts have a specified expiry date, which is when the transaction is completed and the buyer pays the agreed-upon price for the asset.

Futures contracts can be settled in two ways - either by physical delivery or by cash settlement. In physical delivery, the underlying asset is delivered to the buyer at the specified price and time. In cash settlement, the buyer receives a cash payment equal to the difference between the agreed-upon price and the market price of the asset at the time of the contract's expiry.

Futures trading involves a high degree of risk, as price movements can be unpredictable and volatile.

## Options

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An option is a contract between two parties giving the buyer (holder) the right, but not the obligation, to buy or sell an underlying asset at a specified price (strike price) within a specified time period. The seller (writer) of the option is obligated to sell or buy the asset at the specified price if the buyer chooses to exercise their option.

There are two main types of options: call options and put options. A call option gives the holder the right to buy an underlying asset at the strike price, while a put option gives the holder the right to sell an underlying asset at the strike price.

Let's say you're interested in purchasing shares of a company that are currently trading at Rs. 100 per share, but you're not sure if the price will go up or down in the next few months. You could purchase a call option, giving you the right to buy the shares at a specified price (say, Rs. 110) within a specified time period (say, 3 months). If the price of the shares does go up to Rs. 120 during that time period, you could exercise your option and purchase the shares at the lower strike price of Rs. 110, thereby earning a profit of Rs. 10 per share.

On the other hand, if the price of the shares remains below the strike price of Rs. 110, you could choose not to exercise your option and simply let it expire. In this case, you would lose the premium you paid to purchase the option but would not be obligated to buy the shares at the higher strike price.

Overall, options can be a useful tool for investors looking to hedge against risk or speculate on the future movements of an underlying asset.

## Swaps

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Swaps are financial contracts between two parties to exchange cash flows at a future date. These cash flows are based on a specific underlying asset or financial instrument, such as interest rates, currencies, or commodities. The two most common types of swaps are interest rate swaps and currency swaps.

Interest rate swaps involve two parties exchanging interest payments. For example, a company that has borrowed money at a variable interest rate may enter into an interest rate swap to exchange the variable rate for a fixed rate. In this case, the company would pay a fixed interest rate to the other party in exchange for receiving the variable interest rate payments.

Currency swaps involve two parties exchanging cash flows denominated in different currencies. For example, a company in India that needs US dollars may enter into a currency swap with a US company that needs Indian rupees. The Indian company would pay the US company a fixed rate of Indian rupees in exchange for receiving a fixed rate of US dollars.

Swaps are often used by companies and financial institutions to manage their risks and hedge against unfavorable market conditions. They can also be used for speculative purposes, such as betting on future interest rates or currency exchange rates.

## Forwards

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Forwards are a type of financial contract between two parties where they agree to buy or sell an underlying asset at a predetermined price on a specific date in the future. These contracts are traded over-the-counter (OTC) and are customized according to the needs of the two parties involved. In contrast to futures, traders cannot buy or sell forward contracts on the exchange before the delivery date, limiting their flexibility in trading.

Let's say you are a farmer who has grown a crop of wheat and expects to harvest it in six months. You want to ensure that you get a good price for your wheat when you sell it, but you are worried that the price might drop in the next six months. On the other hand, a food processing company wants to ensure that it has a steady supply of wheat for the next six months at a price it can afford.

You and the food processing company could enter into a forward contract where you agree to sell your wheat to the company at a fixed price in six months. This means that you have locked in the price you will receive for your wheat, and the company has locked in the price it will pay.

For example, let's say the current market price for wheat is Rs. 20 per kilogram, and you and the company agree to a forward contract at Rs. 25 per kilogram in six months. If the market price drops to Rs. 18 per kilogram, you will still receive Rs. 25 per kilogram from the company, and if the market price rises to Rs. 30 per kilogram, the company will still pay only Rs. 25 per kilogram to you.

In this way, forward contracts provide certainty to both parties by eliminating the risk of price fluctuations in the future.

## Government Securities Market in India

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### What is a Government Security (G-Sec)?

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A Government Security (G-Sec) is a type of investment issued by the Central Government or State Governments in India. G-Secs can be short-term, known as treasury bills, with maturities of less than one year, or long-term, called Government bonds or dated securities, with maturities of one year or more. The Central Government issues both treasury bills and bonds, while State Governments issue bonds, also known as State Development Loans (SDLs). G-Secs are considered very safe as they have practically no risk of default, making them risk-free investments.

Type of Government Security	Description	Issued by	Features
<b>Treasury Bills (T-bills)</b>	Short-term debt instruments	Centre	Issued in 91 days, 182 days, and 364 days tenors. Don't pay regular interest. Issued at a discount, redeemed at face value
<b>Cash Management Bills (CMBs)</b>	Short-term debt instruments	Centre	Similar to T-bills, but with maturities less than 91 days. Help manage temporary cash flow mismatches
<b>Dated G-Secs/Government Bonds</b>	Long-term government securities	Centre	Have fixed or floating interest rates. Interest paid every six months. Tenor ranges from 5 to 40 years
<b>SDL (State Development Loans)</b>	Long-term state government securities	States	Similar to Dated G-Secs, but issued by State Governments. Have fixed or floating interest rates. Tenor varies by state

Government securities (G-Secs) are initially bought through primary market auctions conducted by the Reserve Bank of India (RBI) through the Negotiated Dealing System - Order Matching (NDS-OM). NDS-OM is an electronic platform that facilitates the auction process and allows market participants to submit their bids for G-Secs. In the primary market, interested buyers, including individuals, institutional investors, banks, and financial institutions, participate in auctions by placing bids for the desired quantity and price (yield or coupon rate) of the G-Secs being offered.

Successful bidders are allotted G-Secs based on their bid prices, and the securities are credited to their respective accounts in dematerialized (demat) form. NDS-OM ensures transparency, efficiency, and competitiveness in the auction process, making it easier for investors to participate in government debt auctions.

Subsequently, in the secondary market, G-Secs are traded among investors on stock exchanges such as the National Stock Exchange (NSE) and the Bombay Stock Exchange (BSE), as well as over-the-counter (OTC) markets. Most G-Secs are held in demat form, and investors can easily trade them through their demat accounts.

## Investment Funds

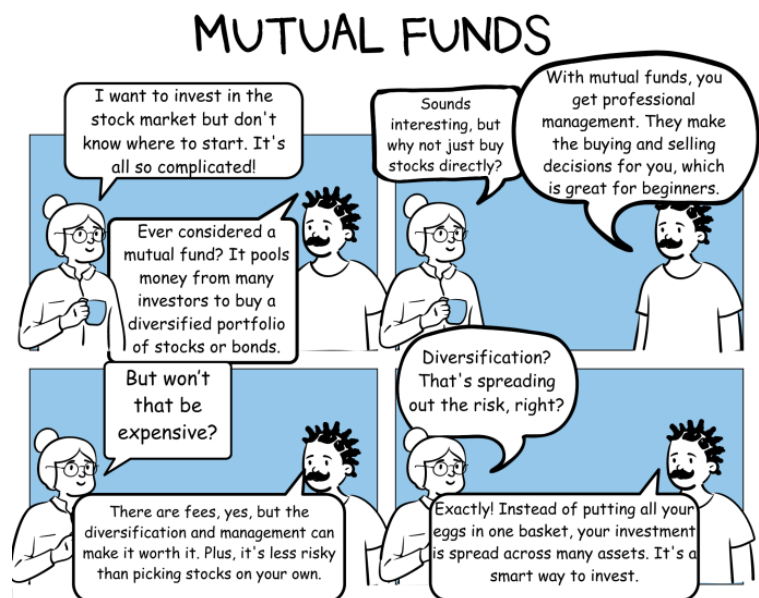
Investment funds, are a type of investment vehicle where individuals pool their money together to invest in a diversified portfolio of assets, such as stocks, bonds, and other securities. The fund is managed by a professional fund manager, who makes investment decisions based on the investment objective of the fund.

### Types of Investment Funds

#### Mutual fund

A mutual fund is an investment vehicle that pools money from many individual investors to purchase a diversified portfolio of stocks, bonds, or other securities. Essentially, it's like a big basket of investments that many people contribute to, and then a professional fund manager uses that money to invest in a variety of assets.

Here's an example to help illustrate how mutual funds work: Let's say you want to invest in the stock market, but you don't have the time or expertise to research and choose individual stocks. Instead, you could invest in a mutual fund that holds a diversified portfolio of stocks selected by a professional fund manager. By buying shares in the mutual fund, you're essentially buying a piece of that diversified portfolio.



The benefits of investing in a mutual fund include diversification (since the fund holds many different securities), professional management (since the fund is managed by an experienced professional), and accessibility (since mutual funds are widely available to individual investors).

There are many different types of mutual funds, including

- **Equity funds** - which invest primarily in stocks
- **Bond funds** - which invest in fixed-income securities like bonds
- **Hybrid funds** - which invest in both stocks and bonds
- **Index funds** - which track the performance of a specific market index (like the S&P 500)
- **Actively managed funds** - where the fund manager makes decisions on which securities to buy and sell in an attempt to outperform the market.

Investors in a mutual fund typically earn returns through capital appreciation (an increase in the value of the securities held by the fund) or through dividend or interest income generated by the securities in the fund's portfolio.

## Hedge Funds

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A hedge fund is a type of investment fund that pools money from investors and uses advanced investment strategies to generate high returns. Hedge funds are usually only open to wealthy investors and require a high minimum investment.

Unlike mutual funds, which invest in a variety of assets like stocks, bonds, and commodities, hedge funds can invest in almost anything, including derivatives, real estate, currencies, and even art. Hedge funds are known for their use of complex financial instruments and techniques, such as leverage, short selling, and options trading, to maximize returns.

Hedge funds are also known for their high management fees and performance fees.

Hedge funds are not as tightly regulated as mutual funds, which means they have more freedom to pursue their investment strategies. This can lead to higher returns, but also higher risks.

An example of a hedge fund is the Bridgewater Associates, one of the largest hedge funds in the world, which uses a variety of quantitative and qualitative investment strategies to generate returns for its investors.

## Alternative Investment Fund (AIF)

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Alternative Investment Fund (AIF) is a type of pooled investment vehicle in India that pools together capital from different investors and invests it in non-traditional assets such as private equity, hedge funds, real estate, and other alternative investments. AIF is regulated by the Securities and Exchange Board of India (SEBI).

AIFs are different from traditional investment funds such as mutual funds, as they are not regulated under the same laws and have fewer restrictions on the types of assets they can invest in. They are designed for high net worth individuals and institutional investors who are looking for higher returns and are willing to take higher risks.

There are three categories of AIFs in India, Category I, Category II, and Category III, each with different investment strategies and requirements:

- **Category I AIFs** invest in start-ups, MSMEs, social ventures, infrastructure, or other areas that the government or regulators consider economically or socially desirable.
- **Category II AIFs** invest in debt or equity securities of companies that are not listed on a stock exchange, or in listed securities that are not frequently traded.
- **Category III AIFs** use complex trading strategies and invest in derivatives, commodities, or other high-risk assets with the aim of generating high returns for investors.

One example of an AIF in India is the KKR India Alternative Credit Opportunities Fund, which is a Category II AIF managed by KKR, a global investment firm. The minimum investment requirement for this fund is INR 1 crore.

## Real Estate Investment Trust (REIT)

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A real estate investment trust (REIT) is a type of investment vehicle that allows individuals to invest in real estate without actually owning physical property. Instead, REITs own and operate income-generating real estate properties such as shopping malls, apartments, office buildings, hotels, and warehouses.

When you invest in a REIT, you are essentially buying shares of that company, which in turn invests your money in real estate properties. The income generated from these properties, such as rent or lease payments, is then distributed among the shareholders in the form of dividends. REITs are required by law to distribute at least 90% of their taxable income to their shareholders, which makes them an attractive investment option for those seeking a steady stream of income.

In India, REITs were introduced in 2014 and they operate under the regulations of the Securities and Exchange Board of India (SEBI). The first REIT launched in India was Embassy Office Parks REIT, which is a joint venture between Embassy Group and Blackstone Group. The minimum investment requirement for investing in REITs in India is typically Rs. 50,000.

### Infrastructure Investment Trusts (InvITs)

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Infrastructure Investment Trusts (InvITs) are a type of investment vehicle that invests in infrastructure projects like highways, power transmission lines, and renewable energy assets. They work similar to REITs, but instead of investing in real estate, they invest in infrastructure projects. InvITs are regulated by the Securities and Exchange Board of India (SEBI).

## Investors

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Investors are individuals or entities who put their money into different investment avenues with the expectation of earning a return on their investment.

### Types of Investors

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1. **Retail Investors:** These are individuals who invest smaller amounts of money in various investment options, such as mutual funds, stocks, and bonds.
2. **Institutional Investors:** These are large organizations, such as pension funds, insurance companies, and mutual funds that invest on behalf of their clients or members. Institutional investors have a higher level of financial knowledge and can invest in riskier assets like private equity or hedge funds.
3. **Accredited Investors:** These are high-net-worth individuals or entities with more than a certain amount of investable assets or income, as defined by regulatory authorities. Accredited investors have access to exclusive investment opportunities, such as private equity or venture capital.
4. **Foreign Institutional Investors (FIIs):** These are institutional investors from other countries who invest in the securities of the domestic market. FIIs can include hedge funds, pension funds, and sovereign wealth funds.
5. **Angel Investors:** These are wealthy individuals who invest their personal funds in startup companies, usually in exchange for an equity stake. Angel investors provide seed capital to startups that have a high potential for growth but are unable to secure funding from traditional sources.



6. **Venture Capitalists:** These are professional investors who invest in early-stage companies with high growth potential. Venture capitalists usually invest larger amounts of money than angel investors and provide more hands-on support to the startup.
7. **Private Equity Investors:** These are investors who provide capital to companies that are not publicly traded, usually in exchange for equity ownership. Private equity investors typically invest in mature companies with a track record of success and aim to improve their operations and profitability.

## India's securities market infrastructure

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1. **Securities and Exchange Board of India (SEBI):** SEBI is the primary regulatory authority responsible for overseeing and regulating India's securities market. It formulates rules and regulations, ensures investor protection, and promotes fair and transparent practices in the market.
2. **Stock Exchanges:** India has several prominent stock exchanges where securities are listed and traded. The two major national stock exchanges are the National Stock Exchange of India (NSE) and the Bombay Stock Exchange (BSE). These exchanges provide a platform for buyers and sellers to trade a wide range of financial instruments, including equities, derivatives, and debt securities.
3. **Depositories:** The two depositories in India are the National Securities Depository Limited (NSDL) and the Central Depository Services Limited (CDSL). They operate as custodians of securities in electronic (dematerialized) form. Investors hold their securities in demat accounts, which eliminates the need for physical certificates and simplifies the transfer and settlement process.
4. **Clearing Corporations:** Clearing corporations ensure the smooth settlement of trades executed on stock exchanges. They act as intermediaries between buyers and sellers, guaranteeing the fulfillment of trade obligations. In India, the two major clearing corporations are the National Securities Clearing Corporation Limited (NSCCL) for the NSE and the Indian Clearing Corporation Limited (ICCL) for the BSE.
5. **Electronic Trading Platforms:** In addition to traditional floor-based trading, electronic trading platforms have become popular in India. The NSE and BSE have introduced their electronic trading platform, where orders are matched electronically, ensuring faster and more efficient execution of trades. Online brokerage platforms like Zerodha and Groww provide seamless access to these electronic trading platforms, enabling investors to place orders and execute trades online.
6. **Negotiated Dealing System - Order Matching (NDS-OM):** NDS-OM is an electronic platform used for primary market auctions of government securities. It facilitates the auction process and allows market participants to submit bids for G-Secs.
7. **Payment and Settlement Systems:** Payment and settlement systems ensure the transfer of funds between buyers and sellers after the trade is executed. The Real-Time Gross Settlement (RTGS) and the National Electronic Funds Transfer (NEFT) systems are commonly used for settling funds in India.

## Stock Exchange

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A stock exchange is a marketplace where stocks and other securities are bought and sold. It provides a platform for companies to raise capital by issuing and selling shares, and for investors to buy and sell these shares.

In India, the two leading stock exchanges are the National Stock Exchange (NSE) and the Bombay Stock Exchange (BSE).

Basis of Comparison	BSE	NSE
<b>Brief Introduction</b>	Oldest stock exchange in Asia	Largest stock exchange in India
<b>Founded In</b>	1875	1992
<b>Benchmark Index</b>	Sensex (30 companies)	Nifty 50 (50 companies)
<b>Website</b>	bseindia.com	nseindia.com
<b>Total Listed Companies</b>	Around 7400	Around 1790
<b>Market Capitalization</b>	Around Rs 266 trillion	Around Rs 199 trillion
<b>Global Rank (by market capitalization)</b>	10 <sup>th</sup>	11 <sup>th</sup>
<b>Trading Mechanism</b>	Combination of electronic and traditional trading	Fully electronic trading platform
<b>Liquidity</b>	Comparably lower than NSE	In case of liquidity, NSE is a clear winner, since volume traded in NSE are much higher compared to BSE

## Securities and Exchange Board of India

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SEBI is an autonomous regulatory body established under the Securities and Exchange Board of India Act, 1992 to protect the interests of investors in securities and promote the development and regulation of the securities market.

### Composition

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SEBI is governed by a board of directors consisting of nine members, including one chairman, two members from the Union Finance Ministry, one member from the Reserve Bank of India, and five members nominated by the government. Out of these five members, three are full-time members.

### Tenure of Chairman

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The tenure of the SEBI chairman is three years or until they attain the age of 65 years, whichever is earlier. However, the government can extend the tenure of the chairman by one year at a time, up to a maximum of two years.

## Functions

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SEBI has a wide range of functions to regulate and promote the securities market. Some of the key functions of SEBI are as follows:

1. **Regulating the securities market:** SEBI is responsible for regulating both primary and secondary securities markets. It can frame rules, regulations, guidelines, and directions for intermediaries and financial institutions operating in securities markets.
2. **Protecting investors' interests:** It ensures that investors get fair treatment, and their rights are not violated.
3. **Promoting transparency:** SEBI promotes operational transparency and disclosure of information to ensure investor protection.
4. **Registration and regulation of intermediaries:** SEBI regulates intermediaries such as stockbrokers, sub-brokers, bankers to the issues, and venture capital funds.
5. **Regulating substantial acquisition of shares and takeovers:** SEBI regulates substantial acquisition of shares and takeovers to prevent market manipulation and ensure transparency.

## Appellate Mechanism

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Any person aggrieved by an order of SEBI can file an appeal with the Securities Appellate Tribunal (SAT). SAT is a quasi-judicial body that hears appeals against orders passed by SEBI. If a person is not satisfied with the SAT's decision, they can further appeal to the Supreme Court.

Suppose a company issues shares to the public for the first time, and some of the investors complain that they were misled about the company's financial position. SEBI would investigate the matter, and if it finds that the company has violated any securities laws, it can take action against the company and its intermediaries. This action may include imposing fines, issuing warnings, or even suspending the company's trading on the stock exchange. The investors can also appeal to the SAT if they are not satisfied with SEBI's decision.

## Various reforms implemented by SEBI

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1. **Securities Market Code:** The Securities Market Code aims to create a single unified code that governs all aspects of the securities market, making it easier for investors and market participants to understand and follow the rules. It was proposed in Budget 2021.
2. **Investor Charter:** The Investor Charter is a document created by SEBI to educate and inform investors about their rights and responsibilities while participating in the securities market.
3. **Circuit Breaker System:** The Circuit Breaker System is a mechanism introduced by SEBI to prevent excessive volatility and sudden price swings in the stock market. When certain predetermined thresholds are breached, trading is temporarily halted to allow investors to cool down and reassess their positions. The circuit breaker system helps maintain market stability and reduces the impact of sharp market movements.
4. **PAN Card:** The PAN (Permanent Account Number) card is a unique identification number issued by the Indian government to individuals and entities involved in financial transactions, including

securities trading. A PAN card is mandatory for opening a demat account and participating in the securities market. It helps track financial activities and prevents tax evasion.

5. **Investor Protection Fund:** The Investor Protection Fund is a reserve fund set up by stock exchanges under SEBI's guidelines. It aims to compensate investors in case of fraud, default, or other unforeseen events that cause financial losses.
6. **Insider Trading Regulations:** SEBI established stringent regulations against insider trading, prohibiting individuals with access to privileged information from trading in securities based on such information. This ensures a level playing field for all investors.

## Additional Terms and Concepts

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### *Amortization*

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Amortization is the process of gradually paying off a debt over a period of time through regular payments. These payments cover both the interest and the principal amount of the loan. In accounting, amortization also refers to the spreading out of the cost of an intangible asset over its useful life.

Example: Consider you take a loan of \$10,000 to buy a car, with an interest rate of 5% and a repayment period of 5 years. Each month, you make a fixed payment that covers both the interest and part of the principal amount. Over time, the portion of your payment that goes toward interest decreases, while the portion that goes toward the principal increases. By the end of 5 years, the entire loan is paid off. This process of paying off the loan through regular payments is called amortization.

### *Volatility Index (VIX)*

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The Volatility Index (VIX) is a measure of the stock market's expectation of volatility over the coming 30 days. It is often referred to as the "fear gauge" because it indicates the level of uncertainty or risk in the market.

Example: If the VIX is high, it suggests that investors expect significant fluctuations in stock prices over the next month, indicating higher uncertainty or fear in the market. Conversely, a low VIX indicates that investors expect stable prices and low volatility. For instance, during times of economic or political turmoil, the VIX might rise sharply as investors anticipate more market volatility.

### *Algorithmic Trading*

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Algorithmic trading, or algo trading, is the use of computer algorithms to execute trades in financial markets. These algorithms follow pre-set rules and can analyze vast amounts of data quickly to make trading decisions. The algorithm monitors market conditions and executes trades within milliseconds based on certain criteria, such as price movements or trading volumes. This allows the firm to capitalize on small price changes that occur in a short time frame.

### *Arbitrage*

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Arbitrage involves buying an asset in one market at a lower price and simultaneously selling it in another market at a higher price to profit from the price difference.

Example: Suppose gold is trading at ₹50,000 per 10 grams in Mumbai and ₹50,200 per 10 grams in Delhi. A trader buys gold in Mumbai and sells it in Delhi, making a profit of ₹200 per 10 grams through arbitrage.

### *Bear & Bull*

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"Bear" and "Bull" refer to market trends and investor sentiment.

- Bear Market: A period when stock prices are falling, and investors are pessimistic.
- Bull Market: A period when stock prices are rising, and investors are optimistic.

## Alpha

Alpha is a measure of an investment's performance relative to a benchmark index. It indicates the excess return generated by an investment compared to the market average.

Example: If a mutual fund in India has an annual return of 12% while the benchmark index returns 10%, the fund's alpha is +2%, indicating it outperformed the market by 2%.

## Beta

Beta measures the volatility or systematic risk of an investment relative to the overall market. A beta of 1 indicates the investment moves with the market, greater than 1 indicates higher volatility, and less than 1 indicates lower volatility.

Example: A stock with a beta of 1.5 is 50% more volatile than the market. If the Indian stock market increases by 10%, the stock is expected to increase by 15%. Conversely, if the market decreases by 10%, the stock is expected to decrease by 15%.

## Brokerage

Brokerage refers to the fee or commission charged by a broker for executing buy and sell orders on behalf of investors. Brokers act as intermediaries between buyers and sellers in financial markets.

Example: You decide to buy shares of Infosys through an online trading platform. The broker charges a commission of 0.5% on the transaction. If you buy ₹1,00,000 worth of Infosys shares, the brokerage fee would be:

$$\text{Brokerage Fee} = ₹1,00,000 \times 0.005 = ₹500$$

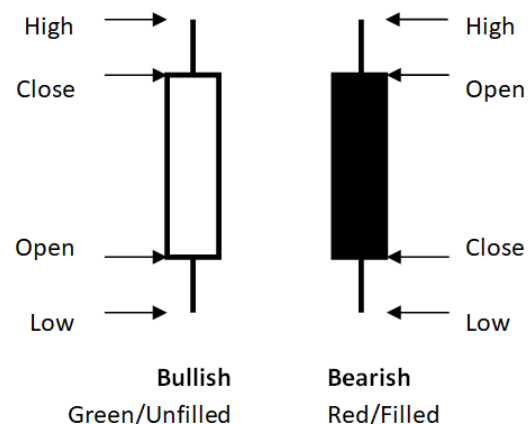
So, you pay ₹500 to the broker for executing the trade.

## Candlestick Chart

A candlestick chart is a type of financial chart used to represent the price movement of an asset over a specific period. Each "candlestick" shows the opening, closing, high, and low prices for that period, giving a visual representation of market sentiment.

Example: Suppose you are analyzing the stock price of Tata Motors. On a candlestick chart:

- The body of the candlestick shows the opening and closing prices.
- If the body is green (unfilled in black and white charts), it means the closing price was higher than the opening price (bullish).
- If the body is red (filled in black and white charts), it means the closing price was lower than the opening price (bearish).
- The "wicks" or "shadows" above and below the body represent the highest and lowest prices during that period.



By looking at the candlestick chart, you can quickly see the price trends and patterns for Tata Motors' stock.

### *Insider Trading*

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Insider trading involves buying or selling a company's securities based on material, non-public information about the company. This practice is illegal because it gives an unfair advantage to insiders over regular investors.

Example: An executive at a major Indian company learns that the company is about to announce a significant merger that will likely increase the stock price. Before the information is made public, the executive buys a large number of shares to profit from the expected price increase. This act of trading based on confidential information is considered insider trading and is illegal.

### *Market Capitalization*

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Market capitalization, or market cap, is the total value of a company's outstanding shares of stock. It is calculated by multiplying the current share price by the total number of outstanding shares.

Example: Let's say Reliance Industries has 500 crore outstanding shares, and the current share price is ₹2,000. The market capitalization of Reliance Industries would be:

Market Capitalization = Share Price × Outstanding Shares = ₹2,000 × 500 crore = ₹10,00,000 crore

This means Reliance Industries has a market capitalization of ₹10 lakh crore, indicating its total value in the stock market.

### *Portfolio*

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A portfolio is a collection of investments held by an individual or an institution. It can include a variety of assets such as stocks, bonds, mutual funds, real estate, and other securities.

Example: Imagine you have ₹10,00,000 to invest. You decide to create a diversified portfolio:

- ₹4,00,000 in stocks (e.g., shares of Infosys, Reliance Industries)
- ₹3,00,000 in bonds (e.g., government bonds, corporate bonds)
- ₹2,00,000 in mutual funds (e.g., equity mutual funds, debt mutual funds)
- ₹1,00,000 in real estate (e.g., REITs)

By diversifying your investments, you spread the risk and aim to achieve a balanced return on your investment.

### *P/E Ratio (Price-to-Earnings Ratio)*

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The P/E ratio is a financial metric that measures the current price of a stock relative to its earnings per share (EPS). It indicates how much investors are willing to pay for each rupee of earnings.

Example: Suppose the current share price of TCS is ₹3,000, and its earnings per share (EPS) for the past year is ₹150. The P/E ratio is calculated as:

P/E Ratio = Share Price / Earnings Per Share = ₹3,000 / ₹150 = 20

This means investors are willing to pay ₹20 for every ₹1 of TCS's earnings. A higher P/E ratio indicates higher expectations for future growth.

### *EBITDA (Earnings Before Interest, Taxes, Depreciation, and Amortization)*

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EBITDA is a measure of a company's overall financial performance and is used as an indicator of its profitability. It excludes interest, taxes, depreciation, and amortization expenses.

Example: Let's say a company's income statement shows the following:

- Revenue: ₹50,00,000
- Cost of Goods Sold (COGS): ₹20,00,000
- Operating Expenses: ₹10,00,000
- Depreciation and Amortization: ₹5,00,000
- Interest Expense: ₹2,00,000
- Taxes: ₹1,50,000

EBITDA is calculated as:

$$\text{EBITDA} = \text{Revenue} - \text{COGS} - \text{Operating Expenses} = ₹50,00,000 - ₹20,00,000 - ₹10,00,000 = ₹20,00,000$$

This shows the company's earnings before accounting for interest, taxes, depreciation, and amortization.

### *Stop Loss Order*

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A stop loss order is an order placed with a broker to buy or sell a security when it reaches a specific price. It is used to limit an investor's loss on a position.

Example: You buy shares of HDFC Bank at ₹1,500 per share. To protect yourself from a significant loss, you place a stop loss order at ₹1,400. If the stock price falls to ₹1,400, the stop loss order is triggered, and your shares are sold automatically. This limits your potential loss to ₹100 per share.

### *Short Selling*

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Short selling is a trading strategy where an investor borrows shares and sells them, hoping to buy them back later at a lower price to make a profit. It is used when an investor expects the price of a stock to decline.

Example: Suppose you believe that the stock price of XYZ Ltd, currently trading at ₹500, will drop. You borrow 100 shares and sell them at ₹500 each, making ₹50,000. Later, the stock price drops to ₹400, and you buy back the 100 shares at this lower price, spending ₹40,000. You return the borrowed shares and keep the ₹10,000 profit (minus any borrowing fees or commissions).

### *Margin Trading*

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Margin trading involves borrowing money from a broker to buy more securities than you could with your available cash. It allows investors to leverage their positions to increase potential returns, but it also increases the risk of losses.

Example: Suppose you have ₹50,000 and you want to buy shares of Infosys priced at ₹1,000 each. Without margin trading, you could buy 50 shares. However, if you use margin trading and your broker allows you to borrow an additional ₹50,000, you can buy 100 shares. If the price of Infosys rises to



₹1,200, you can sell the 100 shares for ₹1,20,000, making a profit of ₹20,000 (excluding interest and fees). But if the price falls, your losses will also be magnified.

### *Day Trading*

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Day trading is the practice of buying and selling financial instruments within the same trading day, such that all positions are closed before the market closes. Day traders aim to profit from short-term price movements.

Example: A day trader buys shares of Tata Motors at ₹200 each in the morning, hoping that the price will increase by the end of the day. By noon, the price rises to ₹210, and the trader sells the shares, making a profit of ₹10 per share. Day traders rely on quick decisions and often use technical analysis to identify trading opportunities.

### *Blue Chip Stocks*

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Blue chip stocks are shares of large, well-established, financially sound companies with a history of reliable performance and strong market presence. These companies typically pay regular dividends and are considered safe investments.

Example: In India, companies like Reliance Industries, Infosys, and HDFC Bank are considered blue chip stocks. They are well-known, have a strong track record of performance, and are leaders in their respective industries. Investors often buy blue chip stocks for their stability and steady returns.

### *Technical Analysis*

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Technical analysis is a method used to evaluate and predict the future price movements of securities by analyzing past market data, primarily price and volume. It involves the use of charts and technical indicators to identify patterns and trends.

Example: A trader uses technical analysis to decide when to buy or sell shares of Wipro. They look at historical price charts, moving averages, and volume data to identify patterns such as support and resistance levels. If the trader sees a "head and shoulders" pattern forming, they might predict a potential price drop and decide to sell the shares.

### *Fundamental Analysis*

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Fundamental analysis involves evaluating a security's intrinsic value by examining related economic, financial, and qualitative factors. This method looks at a company's financial statements, management, industry conditions, and economic indicators to determine its value and potential for future growth.

Example: An investor uses fundamental analysis to assess whether to invest in ICICI Bank. They examine the bank's annual reports, balance sheet, income statement, and cash flow statement. They also consider factors like the bank's market share, the overall health of the banking sector, and economic conditions. If they determine that ICICI Bank is undervalued compared to its intrinsic value, they might decide to buy its shares.

### *Leverage*

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Leverage involves using borrowed funds to increase the potential return on an investment. While leverage can amplify gains, it can also magnify losses, making it a high-risk strategy.

Example: Suppose you have ₹1,00,000 to invest in stocks, and you use leverage by borrowing an additional ₹1,00,000 from your broker, giving you a total of ₹2,00,000 to invest. If your investment grows by 10%, the total value will be ₹2,20,000. After repaying the borrowed ₹1,00,000, you will have ₹1,20,000, making a profit of ₹20,000 on your original ₹1,00,000 investment. However, if your investment falls by 10%, the total value will be ₹1,80,000. After repaying the borrowed ₹1,00,000, you will have only ₹80,000, resulting in a loss of ₹20,000 on your original ₹1,00,000.

### *Index Fund*

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An index fund is a type of mutual fund or exchange-traded fund (ETF) designed to replicate the performance of a specific market index.

Example: Suppose you invest in an index fund that tracks the Nifty 50, a major stock market index in India comprising 50 of the largest Indian companies. If the Nifty 50 rises by 8% over a year, the index fund will also provide a similar return of 8%, minus any management fees. This allows you to invest in a diversified portfolio of top companies without having to pick individual stocks.

### *Circuit Breakers*

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Circuit breakers are mechanisms used in stock exchanges to temporarily halt trading on an exchange to prevent panic-selling. They are triggered when there is a significant drop or rise in a stock index within a short period.

Example: On a particular day, the Indian stock market experiences a rapid decline, and the Sensex falls by 10% within a few hours. This triggers a circuit breaker, and trading is halted for a specified period (e.g., a day). This pause gives investors time to assess the situation, reduces panic, and helps maintain market stability. Similarly, if the market rises too quickly, circuit breakers can also be used to cool down the trading frenzy.

### *Credit Default Swap (CDS)*

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A Credit Default Swap (CDS) is a financial derivative that acts as a type of insurance against the default of a borrower. The buyer of a CDS makes periodic payments to the seller, and in return, receives a payout if the borrower defaults on the loan.

Example: Imagine an Indian bank lends ₹10 crore to a company. To protect itself against the risk of the company defaulting, the bank buys a CDS from another financial institution. The bank pays a periodic fee for this protection. If the company defaults on the loan, the institution that sold the CDS compensates the bank for its loss, reducing the bank's risk.

### *Economic Bubble*

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An economic bubble occurs when the price of an asset, such as real estate, stocks, or commodities, rises significantly over a short period, driven by exuberant market behavior. The prices increase rapidly, far beyond the asset's intrinsic value, leading to a situation where the prices cannot be sustained, eventually causing the bubble to burst, and prices to plummet.

Example: The most famous example is the Housing Bubble in the United States that led to the 2008 financial crisis. During the early 2000s, housing prices skyrocketed as people kept buying homes, expecting prices to continue rising. Lenders gave out loans without strict checks, which many borrowers

couldn't repay. When it became clear that the housing prices were unsustainable, the bubble burst, leading to a sharp decline in home values and a financial crisis.

### *ESG (Environmental, Social, and Governance)*

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ESG refers to the three central factors in measuring the sustainability and ethical impact of an investment in a company. These factors help investors evaluate how a company manages risks and opportunities related to environmental, social, and governance issues.

Example: Tata Group, one of India's largest conglomerates, is often evaluated on ESG criteria. Environmentally, Tata Motors is known for its efforts in producing electric vehicles like the Tata Nexon EV. Socially, Tata Group is recognized for its contributions to education, healthcare, and community development through the Tata Trusts. In terms of governance, Tata Group's corporate governance practices, including transparency and ethical conduct, are highly regarded.

### *Black Swan Event*

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A Black Swan event is a rare and unexpected event with significant impact. These events are difficult to predict and often come as a surprise, but they can have profound effects on economies and markets.

Example: The COVID-19 pandemic is a Black Swan event. It was unforeseen and had a massive impact on global health, economies, and daily life. In India, the pandemic led to a nationwide lockdown, disrupted businesses, and caused a sharp economic contraction.

### *Green Swan Event*

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A Green Swan event refers to climate-related events that can cause significant economic disruptions. These events are unpredictable in their specifics but are known to have potentially severe impacts due to climate change.

Example: Severe flooding in Kerala in 2018 can be considered a Green Swan event. The floods, driven by unprecedented rainfall, led to massive economic losses, displacement of people, and significant damage to infrastructure. Such climate-related events are becoming more frequent and severe due to global warming.

### *Zombie Firms*

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Zombie firms are companies that are unable to cover their interest payments with their earnings and rely on external financing to survive. These firms are often inefficient and contribute little to economic growth.

Example: In India, several companies in the steel and infrastructure sectors became zombie firms during periods of economic downturn. They were kept afloat by continuous loans and financial support despite being unable to generate sufficient profits. This situation can strain the banking sector and slow down economic recovery.

## Previous Years Prelims Questions

1.	<p>With reference to the India economy, what are the advantages of “Inflation-Indexed Bonds (IIBs)”?</p> <ol style="list-style-type: none"> <li>1. Government can reduce the coupon rates on its borrowing by way of IIBs.</li> <li>2. IIBs provide protection to the investors from uncertainty regarding inflation.</li> <li>3. The interest received as well as capital gains on IIBs are not taxable.</li> </ol> <p>Which of the statements given above are correct?</p> <p>(a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3</p>	2022
2.	<p>With reference to the expenditure made by an organisation or a company, which of the following statements is/are correct?</p> <ol style="list-style-type: none"> <li>1. Acquiring new technology is capital expenditure.</li> <li>2. Debt financing is considered capital expenditure, while equity financing is considered revenue expenditure.</li> </ol> <p>Select the correct answer using the code given below:</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	2022
3.	<p>Convertible Bonds, consider the following statements:</p> <ol style="list-style-type: none"> <li>1. As there is an option to exchange the bond for equity, Convertible Bonds pay a lower rate of interest.</li> <li>2. The option to convert to equity affords the bondholder a degree of indexation to rising consumer prices.</li> </ol> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	2022
4.	<p>With reference to India, consider the following statements:</p> <ol style="list-style-type: none"> <li>1. Retail investors through Demat account can invest in Treasury Bills and Government of India Debt Bonds in the primary market</li> </ol>	2021

	<p>2. The “Negotiated Dealing System-Ordering Matching” is a government securities trading platform of the Reserve Bank of India.</p> <p>3. The “Central Depository Services Ltd” is jointly promoted by the Reserve Bank of India and the Bombay Stock Exchange.</p> <p>Which of the statements given above is/are correct?</p> <p>a) 1 only b) 1 and 2 c) 3 only d) 2 and 3</p>	
5.	<p>Indian Government Bond yields are influenced by which of the following?</p> <p>1. Actions of the United States Federal Reserve 2. Actions of the Reserve Bank of India 3. Inflation and short-term interest rates.</p> <p>Select the correct answer using the code given below</p> <p>a) 1 and 2 only b) 2 only c) 3 only d) 1, 2 and 3</p>	2021
6.	<p>With reference to the Indian economy, consider the following statements :</p> <p>(1) Commercial Paper is a short-term unsecured promissory note. (2) Certificate of Deposit is a long-term Instrument issued by RBI to a corporation. (3) ‘Call Money’ is short-term finance used for interbank transactions. (4) “Zero-Coupon Bonds’ are the interest-bearing short-term bonds issued by the Scheduled Commercial Banks to corporations.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 and 2 only (b) 4 only (c) 1 and 3 only (d) 2, 3 and 4 only</p>	2020
7.	<p>In the context of the Indian economy, non-financial debt includes which of the following?</p> <p>(1) Housing loans owed by households (2) Amounts outstanding on credit cards (3) Treasury bills</p>	2020

	<p>Select the correct answer using the code given below :</p> <p>(a) 1 only  (b) 1 and 2 only  (c) 3 only  (d) 1, 2 and 3</p>	
8.	<p>Consider the following statements:</p> <p>(1) The Reserve Bank of India manages and services Government of India Securities but not any State Government Securities.  (2) Treasury bills are issued by the Government of India and there are no treasury bills issued by the State Governments.  (3) Treasury bills offered are issued at a discount from the par value.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 and 2 only  (b) 3 Only  (c) 2 and 3 only  (d) 1, 2 and 3</p>	2018
9.	<p>What is/are the purpose/purposes of the Government's 'Sovereign Gold Bond Scheme' and 'Gold Monetization Scheme'?</p> <p>(1) To bring the idle gold lying with Indian households into the economy  (2) To promote FDI in the gold and jewellery sector  (3) To reduce India's dependence on gold imports</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only  (b) 2 and 3 only  (c) 1 and 3 only  (d) 1, 2 and 3</p>	2016
10.	<p>What does venture capital mean?</p> <p>(a) A short-term capital provided to industries  (b) A long-term start-up capital provided to new entrepreneurs  (c) Funds provided to industries at times of incurring losses  (d) Funds provided for replacement and renovation of industries</p>	2014

11.	<p>Consider the following statements:</p> <p>Statement-I: Interest income from the deposits in Infrastructure Investment Trusts (InvITs) distributed to their investors is exempt from tax, but the dividend is taxable.</p> <p>Statement-II: InvITs are recognized as borrowers under the ‘Securitization and Recon- struction of Financial Assets and Enforcement of Security Interest Act, 2002’.</p> <p>Which one of the following is correct in respect of the above statements?</p> <p>(a) Both Statement-I and Statement-II are correct, and Statement- II is the correct explanation for Statement- I</p> <p>(b) Both Statement-I and Statement-II are correct, and Statement- II is not the correct explanation for Statement-I.</p> <p>(c) Statement-I is correct, but Statement-II is incorrect</p> <p>(d) Statement-I is incorrect, but Statement-II is correct</p>	2023
12.	<p>Consider the following statements:</p> <p>Statement-I: Carbon markets are likely to be one of the most widespread tools in the fight against climate change.</p> <p>Statement-II: Carbon markets transfer resources from the private sector to the State.</p> <p>Which one of the following is correct in respect of the above statements?</p> <p>(a) Both Statement-I and Statement-II are correct and Statement- II is the correct explanation for Statement- I</p> <p>(b) Both Statement-I and Statement-II are correct and Statement- II is not the correct explanation for Statement-I.</p> <p>(c) Statement-I is correct but Statement-II is incorrect</p> <p>(d) Statement-I is incorrect but Statement-II is correct</p>	2023
13.	<p>Consider the following markets:</p> <ol style="list-style-type: none"> <li>1. Government Bond Market</li> <li>2. Call Money Market</li> <li>3. Treasury Bill Market</li> <li>4. Stock Market</li> </ol>	2023

	<p>How many of the above are included/ in capital markets?</p> <p>(a) Only one (b) Only two (c) Only three (d) All four</p>	
14.	<p>Consider the investments in the following assets:</p> <ol style="list-style-type: none"> <li>1. Brand recognition</li> <li>2. Inventory</li> <li>3. Intellectual property</li> <li>4. Mailing list of clients</li> </ol> <p>How many of the above are considered intangible investments?</p> <p>(a) Only one (b) Only two (c) Only three (d) All four</p>	2023
15.	<p>In the context of finance, the term 'beta' refers to</p> <p>(a) the process of simultaneous buying and selling of an . asset from different platforms (b) an investment strategy of a portfolio manager to balance risk versus reward (c) a type of systemic risk that arises where perfect hedging is not possible (d) a numeric value that measures the fluctuations of a stock to changes in the overall stock market</p>	2023

**Answers**

1.	A	2.	A
3.	C	4.	B
5.	D	6.	C
7.	D	8.	C
9.	C	10.	B
11.	D	12.	C
13.	B	14.	C
15.	D		



# 13

CHAPTER

AGRIULTURE &  
ALLIED SECTORS



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# Chapter 13

## Agriculture and allied sectors

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Agriculture is a vital sector of the country's economy, playing a crucial role in providing food security and contributing to overall economic growth. With over half of the Indian population dependent on agriculture for their livelihoods, the sector is a major source of employment and income generation in rural areas. Agriculture also contributes significantly to the country's gross domestic product (GDP), with the sector accounting for around 17-18% of India's GDP.

### Cropping Seasons

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Season	Time period	Major crops	Brief description
<b>Kharif</b>	June to September/October	Paddy, maize, millet, cotton, sugarcane, groundnut	Summer cropping season, crops suited to warm and wet conditions
<b>Rabi</b>	October/November to March/April	Wheat, barley, gram, peas, mustard	Winter cropping season, crops suited to cool and dry conditions
<b>Zaid</b>	March to June	Watermelon, muskmelon, cucumber, bitter gourd, bottle gourd, sponge gourd	Short cropping season between Rabi and Kharif, crops grown in hot and dry conditions before the onset of monsoon

### Cropping Systems

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Cropping systems refer to the different ways that crops are grown on a piece of land. In India, the most common cropping systems are:

1. **Monocropping:** Monocropping is the practice of growing a single crop on a piece of land for an extended period. This system is easy to manage and allows for specialization, but it can lead to soil depletion and pest problems. Examples of crops commonly grown using this system in India include rice, wheat, and cotton.
2. **Intercropping:** Intercropping involves growing two or more crops on the same piece of land at the same time. This system can increase soil fertility, reduce pest problems, and maximize land use efficiency, but it requires more management and may result in lower yields for individual crops. Examples of crops commonly grown using this system in India include legumes and pulses, which are often intercropped with cereals like maize or sorghum.
3. **Crop rotation:** Crop rotation involves growing different crops on the same piece of land in a planned sequence. This system can improve soil health, reduce pest problems, and increase yields, but it requires more planning and management. Examples of crops commonly grown using this system in India include rice and wheat being rotated with legumes or oilseeds.
4. **Relay cropping:** Relay cropping involves planting a second crop in the same field before the first crop is harvested. This system can increase yields and soil health, but it requires careful

management and timing. Examples of crops commonly grown using this system in India include wheat being relay cropped with mung beans or lentils.

5. **Agroforestry:** Agroforestry involves integrating trees or other woody perennials with crops or livestock. This system can improve soil fertility, reduce erosion, and provide additional income, but it requires more management and may result in lower yields for individual crops. Examples of crops commonly grown using this system in India include fruit trees like mango or guava being integrated with vegetable crops.

### *Allelopathy*

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Allelopathy is a process by which plants release chemicals into the environment that can have an impact on other plants or organisms. These chemicals can be released through plant roots, leaves, or other parts of the plant, and they can have both positive and negative effects.

For example, some plants produce allelopathic chemicals that can inhibit the growth of nearby plants, which can help them compete for resources such as water, nutrients, and sunlight. Other plants produce allelopathic chemicals that can repel pests or predators, providing a natural defense mechanism.

Allelopathic effects can be either direct or indirect. Direct effects occur when allelopathic chemicals are released directly onto neighboring plants, while indirect effects occur when the chemicals are released into the soil and affect other organisms in the ecosystem.

One common example of allelopathy in India is the use of marigold plants to control nematode pests in vegetable crops. Marigold plants produce allelopathic chemicals that can repel nematodes, which can be a major pest in vegetable crops. Farmers may plant marigold in between their vegetable rows or rotate marigold with their vegetable crops to take advantage of these allelopathic effects.

By understanding how allelopathic chemicals work, farmers in India and around the world can use this process to their advantage in managing pests, improving soil health, and maximizing crop yields.

### *Factors leading to changes in cropping patterns in India*

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1. **Climate Change:** In recent years, parts of India have experienced erratic rainfall patterns and increased instances of extreme weather events like droughts and floods. As a result, farmers in drought-prone regions may shift from water-intensive crops like paddy rice to more drought-tolerant crops such as millets or pulses. Additionally, farmers in flood-prone areas may opt for flood-resistant crop varieties.
2. **Water Availability:** In regions facing water scarcity, farmers may switch from water-intensive crops to crops that require less water or adopt water-saving irrigation methods like drip irrigation. For example, farmers in Gujarat have shifted from traditional cotton cultivation to drought-tolerant crops like castor, which requires less water.
3. **Technological Advancements:** The Green Revolution in India led to the widespread adoption of high-yielding crop varieties, such as wheat and rice, supported by irrigation facilities and agrochemical inputs. This technological advancement significantly influenced the cropping patterns in regions like Punjab, Haryana, and western Uttar Pradesh.
4. **Government Policies:** In recent years, the Indian government has promoted the cultivation of pulses by offering minimum support prices, subsidies, and procurement support to incentivize farmers. This has led to an increase in the cultivation of pulses in states like Madhya Pradesh and Maharashtra.
5. **Market Demand and Prices:** Changes in market demand and prices can influence cropping patterns. For example, the rise in demand for fruits and vegetables, both domestically and



internationally, has prompted farmers in several states like Maharashtra and Karnataka to shift from traditional crops to horticultural crops. Farmers in Gujarat have transitioned from traditional crops to cash crops like sesame and cumin due to higher market prices.

6. **Land Availability and Soil Fertility:** In regions where agricultural land is limited or soil fertility has declined due to intensive farming practices, farmers may opt for alternative crops or cropping systems. In Punjab, where excessive use of water and agrochemicals has led to soil degradation, some farmers have started exploring organic farming practices or diversifying into crops like maize or pulses.
7. **Socioeconomic Factors:** Changing socioeconomic factors can also drive changes in cropping patterns. With increasing urbanization and changing dietary preferences, there is a growing demand for high-value horticultural crops. In response, farmers in states like Maharashtra and Tamil Nadu have shifted from traditional crops to vegetables, fruits, and floriculture to cater to urban markets and earn higher incomes.
8. **Government Programs and Schemes:** Government programs and schemes can influence cropping patterns. For instance, initiatives like the National Watershed Development Project for Rainfed Areas (NWDPRA) have promoted diversification of cropping patterns by supporting farmers to adopt sustainable farming practices and introducing alternative crops suited to local conditions.

### Way forward for increasing crop diversification

1. **Market Research and Demand Analysis:** Understanding market trends, consumer preferences, and price dynamics is essential for making informed crop selection and diversification decisions. This will help farmers focus on crops that have high demand and are profitable.
2. **Capacity Building and Training:** Providing farmers with training in modern cultivation practices, post-harvest handling, and value addition techniques will enhance their skills and knowledge, leading to improved crop quality and marketability.
3. **Access to Quality Inputs:** Ensuring availability and accessibility of quality seeds, fertilizers, and pesticides is vital. Establishing seed banks and nurseries can help farmers access improved varieties suitable for local conditions.
4. **Infrastructure and Value Chain Development:** Developing storage facilities, processing units, and efficient transportation networks will reduce post-harvest losses and enable farmers to access wider markets.
5. **Farmer Producer Organizations (FPOs) and Cooperatives:** Encouraging the formation of FPOs and cooperatives can empower farmers by providing them collective strength in post-harvest processes, marketing, and value addition.
6. **Risk Management and Financial Support:** Offering crop insurance programs like the Pradhan Mantri Fasal Bima Yojana (PMFBY) can provide a safety net to farmers in case of crop failures or adverse weather conditions.
7. **Research and Development:** Investing in agricultural research to develop new crop varieties suited to local conditions, including traits like drought resistance, disease resistance, and enhanced nutritional value, will boost productivity and resilience.
8. **Policy Support and Incentives:** Government subsidies, market-oriented procurement policies, and favorable regulatory frameworks can motivate farmers to diversify their crops and invest in agribusiness.
9. **Increase Variety Replacement Ratio (VRR):** Phasing out old varieties of seeds and replacing them with hybrid and improved seeds will contribute to higher crop yields and productivity.
10. **Use of Hybrid Technology in Vegetables:** Encouraging the adoption of hybrid technology in vegetable cultivation can result in better-quality produce and increased yields.

11. *Smart Horticulture*: Leveraging technology and precision agriculture techniques can optimize resource utilization and enhance productivity in horticultural crops.
12. *Shift Focus from Agriculture to Agri-Business*: Promoting entrepreneurship in agriculture and supporting **agripreneurs** can lead to value addition, processing, and marketing of agricultural products, fostering a more robust agricultural economy.

## Government of India initiatives

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1. *National Mission on Agricultural Extension and Technology (NMAET)*: This mission aims to improve the knowledge and skills of farmers in adopting new crops and cropping systems through the dissemination of modern agricultural technologies and extension services.
2. *National Food Security Mission (NFSM)*: The NFSM focuses on increasing the production and productivity of pulses, oilseeds, and coarse cereals in regions dominated by rice and wheat.
3. *Rashtriya Krishi Vikas Yojana (RKVY)*: This scheme aims to increase farmers' income, promote sustainable farming practices, and reduce the dependence on water-intensive crops.
4. *Paramparagat Krishi Vikas Yojana (PKVY)*: The PKVY promotes the shift from chemical-intensive farming to organic farming practices.
5. *Soil Health Card Scheme (SHCS)*: The SHCS provides farmers with information about the health of their soil, nutrient deficiencies, and appropriate crop recommendations. This helps farmers make informed decisions about crop selection and nutrient management.
6. *Sub-Mission on Agroforestry*: Part of the National Mission for Sustainable Agriculture (NMSA), this sub-mission encourages the integration of tree cultivation with agricultural crops, promoting agroforestry and diversification of income sources for farmers.
7. *Pradhan Mantri Krishi Sinchai Yojana (PMKSY)*: This scheme focuses on improving irrigation infrastructure and promoting water-saving technologies like micro-irrigation systems. These initiatives enable farmers to explore new crop options that were previously not feasible due to water constraints.

## Integrated Farming System (IFS)

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Integrated Farming System (IFS) is a holistic approach to farming that involves the integration of multiple agricultural activities and enterprises on the same farm. It aims to maximize resource efficiency, enhance productivity, and promote sustainable and diversified income sources.

### Features of IFS:

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1. *Improved Income Generation*: By integrating various enterprises such as crops, livestock, poultry, fishery, and agroforestry, farmers can diversify their income sources and reduce their dependence on a single crop or activity.
2. *Efficient Resource Utilization*: IFS promotes the efficient use of resources by creating synergies between different components of the farm. For example, crop residues can be used as livestock feed, and livestock waste can be utilized as organic fertilizer for crops.
3. *Nutrient Cycling and Recycling*: IFS encourages the recycling of nutrients within the farm ecosystem. Livestock waste, crop residues, and organic matter are used to enrich the soil, reducing the need for external chemical inputs.

4. **Risk Mitigation:** Diversifying production and income sources through IFS can help farmers mitigate risks associated with weather fluctuations, market volatility, or disease outbreaks affecting a single enterprise.
5. **Increased Productivity:** The interactions between different components in IFS can lead to increased productivity. For instance, livestock manure can enhance soil fertility, benefiting crop yields.
6. **Environmental Sustainability:** IFS practices often minimize the use of chemical inputs, promote soil and water conservation, reduce soil erosion, and foster biodiversity conservation.
7. **Utilization of Local Resources:** IFS encourages the use of locally available resources such as crop residues, livestock waste, and indigenous breeds, which can contribute to economic and ecological sustainability.
8. **Capacity Building and Empowerment:** Successful implementation of IFS requires farmers to possess knowledge and skills in multiple agricultural domains. Training and capacity-building initiatives empower farmers to adopt and adapt IFS practices effectively.

## Irrigation Systems in India

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### Sources of irrigation

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Irrigation refers to the process of supplying water to agricultural lands to support crop growth.

1. **Rainfall:** Rainfall is a natural and primary source of irrigation. However, rainfall is unpredictable and varies across regions and seasons. In India, regions with high and reliable rainfall, such as the northeastern states, rely on rainfall as the main source of irrigation.
2. **Surface Water:** Surface water refers to water from rivers, lakes, reservoirs, and canals that can be used for irrigation. It involves diverting water from these sources to agricultural fields through a system of canals and channels.
3. **Groundwater:** Groundwater is water stored beneath the earth's surface in aquifers. It is accessed through wells, tube wells, and bore wells for irrigation purposes.
4. **Tanks and Ponds:** Tanks and ponds are small reservoirs created by building embankments across streams or depressions. They collect rainwater during the monsoon season and store it for irrigation purposes during dry periods.  
Example: In the state of Karnataka, tanks called "Kalyanis" are commonly used for irrigation.
5. **Dams and Reservoirs:** Dams and reservoirs are large structures built across rivers to store water for irrigation, hydroelectric power generation, and other purposes. Water from these reservoirs is released for irrigation through canals.  
Example: The Sardar Sarovar Dam on the Narmada River in Gujarat.
6. **Lift Irrigation:** Lift irrigation involves lifting water from lower sources, such as rivers or canals, to higher elevation agricultural lands. Pumps or mechanical devices are used to lift water and distribute it through pipes or channels.  
Example: The Chambal Lift Irrigation Project in Madhya Pradesh lifts water from the Chambal River and supplies it to fields in the Malwa region.

### Types of irrigation

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1. **Flooding Irrigation:** In flooding irrigation, the field is flooded with water to create a shallow layer. It's like filling the field with water to create a small pond. This method is commonly used for crops

like rice, where fields are leveled, and water is maintained at a consistent depth for a specific duration. The water slowly seeps into the soil, providing moisture to the plant roots.

2. ***Furrow Irrigation***: Furrow irrigation involves creating small channels, called furrows, between rows of crops. Water is supplied through these furrows, allowing it to infiltrate the soil and reach the plant roots.
3. ***Sprinkler Irrigation***: Sprinkler irrigation uses sprinklers that spray water over the field. It's like having tiny rain showers over the crops. Sprinklers can be mounted on moving pipes or fixed in place, and they distribute water evenly over the crops. This method is efficient in reducing water loss due to evaporation.
4. ***Drip Irrigation***: Drip irrigation involves the use of small tubes with emitters to deliver water directly to the plant's root zone. Water is released slowly and directly onto the roots, ensuring efficient water use and minimizing water loss.
5. ***Subsurface Irrigation***: Subsurface irrigation delivers water directly to the root zone of plants below the ground surface. Perforated pipes or tubes are buried in the soil, and water is supplied through these pipes. It seeps out slowly, providing moisture to the plant roots. This method helps reduce water loss through evaporation and minimizes weed growth.

### Micro-irrigation

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Micro-irrigation, including drip irrigation and sprinkler irrigation, can play a significant role in addressing India's water crisis.

1. ***Water Efficiency***: Micro-irrigation systems are designed to deliver water directly to the root zone of plants, minimizing losses due to evaporation, runoff, and deep percolation. Compared to conventional irrigation methods like flood irrigation, micro-irrigation can reduce water use by 30-70%.
2. ***Precise Water Application***: Micro-irrigation allows for precise control over the amount and timing of water delivered to plants. Farmers can adjust the irrigation schedule based on crop water requirements, soil moisture levels, and climatic conditions. This targeted approach reduces over-irrigation and ensures that crops receive the right amount of water when they need it.
3. ***Reduced Salinization and Waterlogging***: By avoiding excessive water application, micro-irrigation helps prevent waterlogging and salinization of soils, which are common problems in areas with poor drainage and high salt content. This promotes healthy root development and improves crop productivity.
4. ***Better Crop Health and Yield***: Micro-irrigation provides a more uniform water distribution across the field, ensuring that each plant receives adequate moisture. This leads to improved crop health, uniform growth, and higher yields.
5. ***Optimal Fertilizer Application***: Micro-irrigation systems can be integrated with fertigation, which is the application of fertilizers through irrigation water. This enables precise and efficient delivery of fertilizers directly to the root zone, reducing nutrient losses and enhancing nutrient uptake by crops.
6. ***Enhanced Crop Diversification and Productivity***: Micro-irrigation systems allow farmers to cultivate a wider range of crops, including high-value horticultural crops, fruits, and vegetables. These crops often have higher market value and can contribute to increased farm incomes and improved livelihoods.
7. ***Adaptability to Water Scarcity***: Micro-irrigation systems are particularly suitable for regions facing water scarcity or low-quality water resources. They enable farmers to make the most of limited water supplies by maximizing water use efficiency and reducing dependency on freshwater sources.

8. *Climate Resilience*: Micro-irrigation systems can help farmers cope with climate change impacts such as erratic rainfall patterns, droughts, and heatwaves. By providing precise control over water application, farmers can adapt to changing climate conditions and ensure the survival and productivity of their crops.

### Key challenges for micro-irrigation in India

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1. *Cost and Affordability*: The initial investment cost for installing micro-irrigation systems can be relatively high compared to traditional irrigation methods. This cost includes equipment such as drip lines, sprinklers, filters, and control systems.
2. *Limited Awareness and Knowledge*: Awareness programs, training, and extension services are needed to educate farmers about micro-irrigation and build their capacity to adopt and manage the systems.
3. *Access to Credit and Financing*: especially for small-scale farmers who may not have the financial means to make upfront investments.
4. *Technical Skills and Maintenance*: Farmers need to understand how to design and install the system, manage water distribution, control pests and clogging, and perform regular maintenance. Ensuring adequate technical support, training, and after-sales services are crucial to overcome this challenge.
5. *Power Supply and Energy Costs*: Micro-irrigation systems often require a reliable and continuous power supply for pumps, filters, and control systems. Dependence on diesel generators or alternative power sources can increase operating costs.
6. *System Design and Adaptation*: Designing micro-irrigation systems that suit the specific crop, soil, and local conditions is critical for their effectiveness. The lack of customized system design and adaptation to local contexts can limit the success of micro-irrigation.
7. *Procurement and Quality Control*: Farmers need access to reliable suppliers and assurance of the quality and durability of the components.
8. *Scale and Infrastructure*: Scaling up micro-irrigation adoption requires supportive infrastructure, including water sources, storage structures, and well-maintained distribution networks.

### Government of India initiatives

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1. *Pradhan Mantri Krishi Sinchai Yojana (PMKSY)*: Launched in 2015, PMKSY aims to provide end-to-end solutions for irrigation supply chain, including water sources, distribution networks, farm-level applications, and efficient water use. It includes various sub-schemes like *Accelerated Irrigation Benefit Programme (AIBP)*, *Har Khet Ko Pani (Water to Every Field)*, and *Per Drop More Crop* to enhance irrigation infrastructure, promote micro-irrigation, and improve water use efficiency.
2. *Micro-Irrigation Fund (MIF)*: The government established the MIF in 2019 with a corpus of ₹5,000 crores to promote micro-irrigation projects across the country. The fund provides financial assistance to farmers and encourages the adoption of drip and sprinkler irrigation systems.
3. *Pradhan Mantri Fasal Bima Yojana (PMFBY)*: PMFBY, launched in 2016, is a crop insurance scheme that provides financial support to farmers in the event of crop loss due to natural calamities, pests, or diseases. The scheme encourages farmers to adopt modern technologies like irrigation, leading to improved water management practices.
4. *National Watershed Development Project for Rainfed Areas (NWDPA)*: NWDPA, initiated in 2015, aims to enhance rainwater harvesting and conservation in rainfed areas. It promotes soil

and water conservation measures, afforestation, and integrated watershed management practices to improve soil moisture availability and water security.

5. *National Mission for Sustainable Agriculture (NMSA)*: NMSA, launched in 2014-15, promotes sustainable agricultural practices, including efficient water use. It encourages the adoption of technologies like drip and sprinkler irrigation, promotes conservation agriculture, and supports capacity building of farmers for sustainable water management.

## Precision farming

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Precision farming, also known as precision agriculture or smart farming, is an advanced approach to agricultural management that utilizes technology and data to optimize crop production and resource efficiency. It involves the use of various tools and techniques to tailor farming practices to the specific needs of individual plants or small areas within a field. Some key components and technologies of precision farming include:

1. *Energy-Friendly Irrigation Pumps*: Precision farming incorporates energy-efficient irrigation pumps that enable precise control over water application, reducing water wastage and optimizing water use.
2. *Micro-Irrigation*: Micro-irrigation systems, such as drip irrigation and sprinkler systems, deliver water and nutrients directly to the roots of plants, resulting in more efficient water use and increased crop yields.
3. *Climate-Smart Technologies*: Precision farming integrates climate-smart technologies that allow farmers to adapt to changing climate conditions and mitigate the impacts of climate change on agriculture.
4. *Internet of Things (IoT)*: IoT devices are used to collect real-time data from the field, such as soil moisture, temperature, and weather conditions. This data is then analyzed to make informed decisions about irrigation, fertilization, and pest management.
5. *Remote Sensing and GIS*: Remote sensing technologies, including satellite imagery and drones, are used to monitor crop health, identify stress factors, and assess field conditions. Geographic Information Systems (GIS) help in spatially analyzing data for better decision-making.
6. *Variable Rate Technology (VRT)*: VRT enables farmers to apply inputs (e.g., fertilizers, pesticides) at variable rates across a field based on the specific needs of different areas, taking into account soil variations and crop requirements.
7. *Data Analytics*: Precision farming relies on data analytics to process and analyze large volumes of data collected from various sources. Data-driven insights help farmers optimize production, reduce costs, and enhance sustainability.

Precision farming is transforming agriculture by leveraging modern technology to address the challenges of feeding a growing global population while promoting sustainable agricultural practices. As technology continues to advance, precision farming is expected to play an increasingly important role in the future of agriculture.

## Zero Budget Natural Farming (ZBNF)

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Zero Budget Natural Farming (ZBNF) is an agricultural practice developed by Subhash Palekar, an Indian agriculturist and activist. It is based on a set of farming methods that aim to promote sustainable agriculture while minimizing or eliminating the use of external inputs and chemicals. The key principles and practices of ZBNF are as follows:



1. **Zero Budget Approach:** The central tenet of ZBNF is to minimize or completely eliminate the use of external inputs such as seeds, fertilizers, and pesticides. Farmers rely on natural processes and locally available resources to nourish the soil and crops.
2. **Indigenous Seeds:** ZBNF emphasizes the use of indigenous seeds that are well-adapted to local agro-climatic conditions. Preserving and using traditional seeds helps maintain crop diversity and reduce the dependence on costly hybrid or genetically modified seeds.
3. **Natural Fertilizers:** Instead of chemical fertilizers, ZBNF encourages the use of natural fertilizers like compost, vermicompost (produced using earthworms), and green manure (cover crops grown specifically to improve soil fertility).
4. **Biopesticides and Natural Pest Management:** Farmers prepare their own biopesticides using botanical extracts, microbial formulations, and other natural substances to manage pests and diseases without relying on synthetic chemical pesticides.
5. **Mulching and Crop Residue Management:** The practice of covering the soil surface with organic materials, such as crop residues, straw, or leaves, helps retain moisture, suppress weed growth, and improve soil health by enhancing microbial activity and organic matter content.
6. **Intercropping and Crop Diversity:** Intercropping, mixed cropping, and crop rotation are employed to improve soil fertility, reduce pest infestations, and increase overall productivity. Crop diversity is essential for maintaining soil health and breaking pest cycles.
7. **Water Conservation:** ZBNF promotes water conservation techniques like drip irrigation, rainwater harvesting, and retaining soil moisture through mulching and organic matter.
8. **Livestock Integration:** ZBNF encourages integrating livestock into the farming system. Livestock waste serves as a valuable source of organic manure, contributing to soil fertility and reducing the need for external inputs.

ZBNF is gaining popularity as a sustainable and cost-effective alternative to conventional chemical-intensive farming.

## Storage, transport and marketing of agricultural produce

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### Challenges to storage of agricultural products

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1. **Inadequate Storage Infrastructure:** The existing storage infrastructure, including warehouses, cold storage facilities, and silos, is insufficient to meet the storage requirements of the vast quantity of agricultural produce in India. Many storage facilities lack proper ventilation, temperature control, and pest management systems, leading to post-harvest losses.
2. **Inefficient Supply Chain Management:** Weak linkages between producers, storage facilities, and markets contribute to supply chain inefficiencies. Inadequate transportation infrastructure, lack of proper handling practices, and delays in moving produce from farms to storage facilities or markets can result in quality deterioration and higher losses.
3. **Post-Harvest Losses:** Inadequate storage facilities and poor post-harvest management contribute to significant losses of agricultural produce. Factors like moisture, pests, molds, and inadequate temperature control can lead to spoilage, decay, and reduced shelf life, resulting in financial losses for farmers.
4. **Lack of Modern Storage Technologies:** The adoption of modern storage technologies like Controlled Atmosphere (CA) storage, Modified Atmosphere Packaging (MAP), and cold chain facilities is limited in India. These technologies can extend the shelf life of perishable products, maintain product quality, and reduce post-harvest losses.

5. *Inefficient Market Linkages*: Lack of real-time information, price volatility, and middlemen influence can lead to farmers receiving lower prices for their produce and inadequate market access.
6. *Lack of Quality Standards and Certifications*: Standardization and certification of storage facilities based on quality, hygiene, and compliance with safety norms are essential.

Addressing these issues requires a comprehensive approach that includes improving storage infrastructure, enhancing post-harvest management practices, strengthening supply chain linkages, promoting the adoption of modern storage technologies, and implementing quality standards and certifications.

## Challenges to transportation of agricultural products in India

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1. *Inadequate Infrastructure*: Limited access to proper roads and transport infrastructure particularly in rural areas hampers the timely and efficient movement of agricultural products.
2. *Poor Connectivity*: Many agricultural regions in India lack proper connectivity to major markets and transportation hubs. This increases transportation costs and delays, impacting the overall efficiency of agricultural supply chains.
3. *Post-Harvest Losses*: Inadequate transportation infrastructure and handling facilities contribute to post-harvest losses. Lack of refrigerated storage and transport facilities for perishable goods such as fruits, vegetables, and dairy products leads to spoilage and reduced shelf life.
4. *Inefficient Logistics*: Fragmented logistics operations, suboptimal routing, and inadequate coordination among various stakeholders contribute to inefficiencies.
5. *High Transportation Costs*: High transportation costs, including fuel prices, tolls, and fees, can significantly impact the profitability of agricultural products.
6. *Seasonal Demand and Congestion*: Seasonal variations in agricultural production lead to spikes in demand during peak harvesting periods. This can lead to congestion, longer wait times at transportation hubs, and increased transportation costs due to limited availability of trucks and other modes of transport.
7. *Regulatory and Administrative Bottlenecks*: Cumbersome paperwork, multiple check-posts, and bureaucratic procedures at state borders and toll plazas can cause delays and increase transaction costs.

Addressing these issues requires a comprehensive approach involving investments in transportation infrastructure, improving connectivity, strengthening logistics and supply chain management, promoting cold chain facilities, and simplifying regulatory procedures.

## Challenges to upstream and downstream processes of agricultural product marketing

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### Upstream Process (Production and Pre-Marketing)

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1. *Fragmented Production*: Agriculture in India is characterized by small landholdings, leading to fragmented production. This fragmentation hinders economies of scale, resulting in higher production costs and reduced bargaining power for farmers.
2. *Lack of Infrastructure*: Inadequate infrastructure for storage, cold chain, transportation, and market linkages leads to post-harvest losses, lower quality of produce, and limited access to markets.
3. *Information Asymmetry*: Farmers often face challenges in accessing accurate market information, including crop demand, prices, and market trends. This lack of information hampers their ability to make informed decisions regarding crop selection, timing of production, and selling strategies.



4. *Limited Access to Credit*: Farmers, particularly small-scale farmers, often face challenges in accessing formal credit facilities for agricultural production. Lack of credit availability and high-interest rates can limit their ability to invest in inputs, modern technology, and infrastructure.

### Downstream Process (Processing and Distribution)

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1. *Value Addition and Processing*: Insufficient processing infrastructure hampers the development of food processing industries, which could add value to agricultural commodities and increase farmers' income.
2. *Inefficient Supply Chains*: The agricultural supply chains in India are often characterized by multiple intermediaries, leading to high marketing margins and price disparities between farmers and consumers. Inefficient supply chains result in increased marketing costs, post-harvest losses, and delayed access to markets.
3. *Quality and Grading Standards*: Quality control and grading standards for agricultural produce are often lacking or inconsistently implemented. This poses challenges in maintaining product quality, meeting export requirements, and accessing premium markets.
4. *Price Volatility and Market Risks*: Farmers face price volatility due to market fluctuations, seasonality, and perishability of agricultural products. Lack of risk mitigation mechanisms and limited access to futures markets can leave farmers vulnerable to price risks.
5. *Limited Market Integration*: Integration of agricultural markets across regions and states in India remains limited. Barriers such as state-level regulations, market taxes, and restrictions on movement of goods impede efficient market integration and hinder price discovery.

Initiatives focusing on infrastructure development, market information dissemination, value addition, credit accessibility, and streamlining supply chains can help improve the efficiency and effectiveness of agricultural product marketing in India.

### Initiatives taken by Government of India to improve storage, transportation and marketing of Agriculture produce

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1. *Pradhan Mantri Kisan Sampada Yojana (PMKSY)*: This scheme aims to modernize and strengthen the entire value chain of food processing, from farm gate to the market. It provides financial assistance for the development of infrastructure such as cold storages, warehouses, packaging centers, and agri-logistics hubs.
2. *Creation of Agri-Logistics Infrastructure*: Under various schemes like the Scheme for Integrated Cold Chain and Value Addition Infrastructure and the Agriculture Export Policy, the government focuses on building efficient agri-logistics infrastructure to reduce post-harvest losses and improve food processing and export capabilities.
3. *Mega Food Parks*: The government has established Mega Food Parks to provide state-of-the-art food processing infrastructure. These parks create a conducive environment for food processing units to thrive by providing common facilities like cold storage, testing laboratories, and warehousing.
4. *National Agricultural Cooperative Marketing Federation of India (NAFED)*: NAFED plays a crucial role in facilitating marketing and procurement operations for agricultural produce. It ensures fair prices and market access to farmers, promoting their welfare.
5. *Electronic National Agriculture Market (e-NAM)*: e-NAM is an online platform that facilitates transparent and efficient trading of agricultural commodities across multiple markets. It promotes

price discovery, reduces intermediaries, and provides farmers with a competitive and transparent market platform.

6. *Infrastructure Development Fund*: The government has established an Infrastructure Development Fund to provide long-term financing for the creation of agriculture infrastructure. This fund helps develop critical infrastructure like irrigation facilities, roads, and post-harvest handling facilities.
7. *Agricultural Produce Market Committee (APMC) Reforms*: To liberalize agricultural marketing and create an open and competitive market, the government has introduced reforms in APMCs. The Model APMC Act allows farmers to sell their produce directly to buyers, bypassing the traditional mandi system, thereby giving them more control over their produce and better prices.
8. *Operation Green Scheme*: This scheme focuses on stabilizing the prices of perishable horticultural crops by establishing price stabilization funds, creating value chains, and linking production centers to consumer centers through efficient logistics.
9. *Gramin Agricultural Markets (GrAMs)*: The government is setting up Gramin Agricultural Markets to create a network of rural markets that provide farmers with facilities for sorting, grading, packaging, and direct sale to consumers.
10. *Kisan Rail and Kisan Udan*: Kisan Rail is a special train service for the transportation of perishable agricultural produce, while Kisan Udan is a scheme to facilitate air transportation of such produce. These initiatives aim to improve transportation and reduce the time taken to reach markets.

## **E-technology in aid of farmers**

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E-technology, including digital platforms, mobile applications, and online services, has emerged as a powerful tool to support farmers in various aspects of agricultural production, marketing, and knowledge dissemination:

1. *Access to Market Information*: E-technology platforms provide farmers with real-time market information on crop prices, demand trends, and market intelligence. Farmers can make informed decisions regarding when, where, and at what price to sell their produce, leading to better market outcomes.
2. *E-Commerce and Direct Selling*: Online marketplaces and e-commerce platforms connect farmers directly with buyers, eliminating intermediaries and enabling farmers to fetch better prices for their produce.
3. *Mobile Banking and Digital Payments*: E-technology enables farmers to access financial services through mobile banking and digital payment systems. It improves convenience and security in financial transactions, making it easier for farmers to receive payments, access credit, and engage in financial management.
4. *Crop Advisory and Weather Forecasting*: Mobile applications and online portals provide farmers with crop advisory services, offering guidance on crop management practices, pest control, and fertilizer recommendations. They also provide access to weather forecasting, helping farmers make timely decisions related to irrigation, sowing, and harvesting.
5. *Access to Inputs and Agri-Services*: E-technology platforms facilitate online procurement of agricultural inputs such as seeds, fertilizers, and machinery. Farmers can compare prices, access a wider range of products, and place orders conveniently.
6. *Farmer Producer Organizations (FPOs) and Market Linkages*: E-technology helps in the formation and management of Farmer Producer Organizations (FPOs) by providing tools for

documentation, inventory management, accounting, and e-governance. It enables FPOs to establish direct market linkages, negotiate better prices, and collectively engage in marketing activities.

7. *Agricultural Knowledge and Training*: Online platforms and mobile applications disseminate agricultural knowledge and provide training resources to farmers. They offer access to video tutorials, webinars, expert advice, and best practices in farming techniques, empowering farmers with up-to-date information and skills enhancement.
8. *Data Analytics and Farm Management*: E-technology platforms equipped with data analytics and farm management tools help farmers monitor and analyze their farming operations. They enable precision agriculture, enabling farmers to optimize input usage, monitor crop health, and manage resources efficiently.

However, it is important to ensure widespread access to digital infrastructure, digital literacy, and equitable adoption of e-technology to avoid leaving behind marginalized farming communities.

## Agriculture-Finance

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Agriculture finance refers to the financial services provided to farmers and other stakeholders in the agricultural sector to help them with various aspects of their business, such as purchasing inputs, managing cash flow, and investing in new technology or infrastructure. Agriculture finance is critical to the growth and success of the agricultural sector, which is a major source of livelihood for millions of people in India.

### Challenges

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1. *Lack of access to formal credit*: Many farmers in India rely on informal sources of credit, such as moneylenders, because they do not have access to formal financial institutions like banks.
2. *High interest rates*: Even when farmers do have access to formal credit, the interest rates can be prohibitively high, making it difficult for them to repay their loans.
3. *Seasonal fluctuations*: Agriculture is a seasonal business, which can make it difficult for farmers to manage their cash flow throughout the year.
4. *Limited collateral*: Many farmers do not have the assets or collateral required to secure loans from formal financial institutions.

### Government reforms/initiatives

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1. *Pradhan Mantri Fasal Bima Yojana*: This government-sponsored crop insurance scheme provides financial support to farmers in the event of crop damage or loss due to natural calamities, pests, or diseases.
2. *Kisan Credit Card scheme*: This scheme provides farmers with access to credit at subsidized interest rates to help them purchase inputs like seeds, fertilizers, and pesticides.
3. *Interest subvention scheme*: This scheme provides a 2% interest subvention to farmers who repay their loans on time, with an additional 3% subvention for prompt repayment.
4. *eNAM platform*: This online platform facilitates electronic trading of agricultural commodities, helping farmers to access new markets and get better prices for their products.

## Agriculture Insurance

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Agriculture insurance refers to the process of providing insurance coverage to farmers for their crops and livestock to protect them from losses due to natural disasters, pest attacks, or any other unforeseen circumstances.

### Challenges

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1. *Lack of awareness* among farmers about the benefits of agriculture insurance.
2. *Limited availability of insurance coverage* for small and marginal farmers.
3. *Insufficient data* on crop yield and damage to calculate accurate premiums.
4. *The involvement of multiple stakeholders* and the complexity of the insurance process can also make it challenging for farmers to avail of insurance coverage.

### Government reforms/initiatives

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1. *The Pradhan Mantri Fasal Bima Yojana (PMFBY)* was launched in 2016 to provide affordable crop insurance coverage to farmers.
2. The government has *increased the budget allocation* for agriculture insurance schemes to provide wider coverage and reduce premiums for farmers.
3. The government has also taken steps to improve the *technology infrastructure* for agriculture insurance, such as using remote sensing and satellite imagery to assess crop damage and calculate payouts more accurately.
4. The government has also *collaborated with private insurance companies* to increase the reach of insurance coverage and make the process more accessible to farmers.

## Direct and Indirect Agriculture subsidies

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In India, agricultural subsidies are provided by the government to support farmers and promote agricultural development. These subsidies can be categorized into direct and indirect subsidies:

### Direct Subsidies

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1. *Input Subsidies*: These subsidies aim to reduce the cost of agricultural inputs for farmers. Examples include:
  - *Fertilizer Subsidies*: The government provides subsidies on fertilizers, such as urea, DAP (Di-Ammonium Phosphate), and potash, to make them more affordable for farmers.
  - *Seed Subsidies*: Subsidies are provided on certified seeds to encourage their adoption and improve seed quality.
  - *Irrigation Subsidies*: Financial assistance is given to farmers for the installation of irrigation infrastructure, including drip irrigation and sprinkler systems.
  - *Power Subsidies*: Subsidies on electricity tariffs are provided to farmers for agricultural purposes like irrigation and operating machinery.
2. *Credit Subsidies*: These subsidies aim to enhance access to affordable credit for farmers. Examples include:
  - *Interest Subsidies*: Interest rate concessions or subsidies are provided on agricultural loans to reduce the cost of borrowing for farmers.
  - *Loan Waivers*: Periodically, the government announces loan waivers for specific categories of farmers or for certain crops to provide debt relief.

## Indirect Subsidies

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1. *Price Support and Procurement*: The government intervenes in the market by procuring agricultural commodities at minimum support prices (MSPs), ensuring farmers receive a guaranteed price for their produce. This price support mechanism helps stabilize agricultural incomes and incentivizes production.
2. *Crop Insurance*: The government provides subsidized crop insurance schemes, such as the Pradhan Mantri Fasal Bima Yojana (PMFBY), to protect farmers against crop losses due to natural disasters, pests, or diseases. Premiums for crop insurance are subsidized, reducing the financial burden on farmers.
3. *Infrastructure Development*: The government invests in the development of rural infrastructure, including roads, storage facilities, market yards, and cold chains, to improve market access and reduce post-harvest losses.
4. *Research and Development (R&D)*: Public investment in agricultural R&D aims to enhance productivity, develop improved crop varieties, and promote sustainable farming practices. These investments indirectly benefit farmers by providing them with better technology and knowledge.

## Concerns and issues regarding agricultural subsidies

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1. *Cost and Budgetary Pressures*: Agricultural subsidies can impose a significant burden on government budgets.
2. *Inequitable Distribution*: Large farmers often benefit more than small and marginal farmers. This inequality in subsidy distribution can exacerbate existing socio-economic disparities in the agricultural sector.
3. *Distorted Market Dynamics*: Price support mechanisms and procurement operations can create market distortions by artificially inflating prices, affecting market competitiveness and private investment.
4. *Subsidy Rationalization and Targeting*: Subsidy schemes may suffer from leakages, inadequate identification mechanisms, and difficulties in reaching marginalized farmers who need support the most.
5. *Environmental Impact*: Some agricultural subsidies, particularly input subsidies, may incentivize excessive use of inputs such as fertilizers and water, leading to environmental degradation, soil nutrient imbalances, and water pollution.
6. *Market Distortions and International Trade*: Agricultural subsidies provided by countries can distort international trade patterns and create imbalances in global markets. Subsidies in one country can impact the competitiveness of agricultural products from other countries, affecting farmers' income in those regions.
7. *Subsidy Dependency*: Overreliance on subsidies can lead to a dependency mindset among farmers, it can create a disincentive for farmers to explore alternative income sources or adopt sustainable farming practices.
8. *Fiscal Sustainability and Reforms*: Ensuring the long-term fiscal sustainability of agricultural subsidies and initiating necessary reforms to streamline subsidy programs remain critical. There is a need to strike a balance between supporting farmers' welfare and promoting fiscal discipline.

Addressing these issues requires regular review and evaluation of subsidy programs, transparent targeting mechanisms, effective monitoring and evaluation systems, and the promotion of sustainable agricultural practices. A holistic approach that considers the socioeconomic and environmental dimensions of agricultural subsidies is essential for their effectiveness and equitable distribution.

## Government Initiatives

1. **Direct Benefit Transfer (DBT) Scheme:** The DBT scheme aims to provide financial assistance directly to farmers' bank accounts, eliminating intermediaries and reducing leakages. This ensures that subsidies reach the intended beneficiaries promptly and efficiently.
2. **Soil Health Card Scheme (SHCS):** The SHCS provides farmers with information about the nutrient status of their soil. By knowing their soil health, farmers can optimize the usage of fertilizers and other inputs, reducing unnecessary expenses and minimizing environmental impacts. This approach promotes sustainable agricultural practices and better resource management.
3. **Neem-Coated Urea:** Neem-coated urea is a form of urea fertilizer that has a coating of neem, a natural insect repellent. This helps reduce the diversion of subsidized urea for non-agricultural purposes, as neem-coated urea is less attractive to industries and traders for illicit use. Ensuring that subsidized urea reaches farmers for agricultural purposes leads to improved fertilizer usage and increased crop productivity.
4. **Subsidy Rationalization and Targeting:** The government is reviewing subsidy schemes to ensure that they are targeted at small and marginal farmers rather than being captured by large landholders. This targeted approach optimizes the allocation of resources and fosters inclusive growth in the agricultural sector.
5. **Crop Insurance - Pradhan Mantri Fasal Bima Yojana (PMFBY):** PMFBY provides crop insurance coverage to farmers, protecting them against crop losses due to natural calamities. This reduces the need for ad hoc subsidies during distress situations and provides farmers with financial security.
6. **Technology and Extension Services:** Investing in technology and extension services helps farmers access information about best practices, new crop varieties, weather forecasts, and market trends. This knowledge empowers farmers to make informed decisions, adopt modern farming techniques, and improve productivity. Reducing dependency on input subsidies and enhancing productivity contributes to the overall economic growth of the agricultural sector.

## Minimum Support Price

Minimum Support Prices (MSPs) are the prices set by the government to provide a guaranteed minimum price for certain agricultural commodities in order to protect farmers from price fluctuations and ensure their income security.

### MSP Crops

Category	Commodity	Major Producer	Various Uses
Cereals	Paddy	West Bengal, Punjab	Used to make rice dishes, biryani, idli, dosa, and other culinary preparations.
	Wheat	Punjab, Haryana	A major staple food crop, used to make chapati, bread, noodles, pasta and various baked goods. Also used for brewing beer and whiskey.
	Maize	Karnataka, Rajasthan	Used for consumption in various forms, such as cornbread, tortillas, and corn flakes. Also used for animal feed, biofuels, and industrial applications.
	Sorghum	Maharashtra, Karnataka	Used for consumption as flour, flatbreads, and alcoholic beverages. Also used for animal feed, fodder, and in the



			production of brooms and other products.
	Pearl Millet	Rajasthan, Gujarat	Important in arid regions for consumption, especially as bajra roti. Used as animal feed, and the straw is used for fodder and thatching roofs.
	Barley	Rajasthan, Uttar Pradesh	Used as a food grain for consumption, animal feed, and in making malt for beer and whiskey.
	Ragi	Karnataka, Tamil Nadu	A nutritious cereal used for consumption, especially in Karnataka, as ragi mudde, dosa, and porridge. Also used in traditional alcoholic beverages.
<b>Pulses</b>	Gram	Madhya Pradesh, Maharashtra	Widely used in Indian cooking to make dal, chana masala, hummus, and various snacks like roasted chana. Also used for animal feed and green manure.
	Tur (Pigeon Pea)	Maharashtra, Karnataka	Essential in making traditional dal, sambar, and various curries in Indian cuisine. Also used for animal feed, green manure, and as a cover crop.
	Moong (Green Gram)	Rajasthan, Maharashtra	Used in various dishes, especially in the form of dal and desserts. Sprouted moong is used in salads and snacks. Also used for animal feed and green manure.
	Urad (Black Gram)	Madhya Pradesh, Maharashtra	Used in various culinary preparations like dal makhani, idli, dosa, and papad. Also used for making flour, and as a primary ingredient in certain desserts.
	Lentil	Madhya Pradesh, Uttar Pradesh	Widely used in Indian cooking for making dal, soups, stews, and salads. Also used in various international cuisines.
<b>Oilseeds</b>	Groundnut	Gujarat, Andhra Pradesh	Used for cooking oil, peanut butter, snacks like roasted peanuts, and in confectionery products like chikki and peanut brittle. Also used for animal feed.
	Rapeseed-Mustard	Rajasthan, Uttar Pradesh	Important for producing mustard oil, used in Indian cooking, and as a massage oil. The meal after oil extraction is used as animal feed.
	Soybean	Madhya Pradesh, Maharashtra	Used for oil extraction to produce soybean oil, as well as for making soy milk, tofu, and various soy-based products. Also used for animal feed and biodiesel.
	Sesamum	Gujarat, Madhya Pradesh	Used for producing sesame oil, which is used in cooking, dressing, and traditional medicines. Sesame seeds are also used as toppings on various dishes.
	Sunflower	Karnataka, Andhra Pradesh	Used for cooking oil, snacks like sunflower seeds, and in the confectionery industry. Also used for bird feed, and in the production of biodiesel.
	Safflower	Rajasthan, Gujarat	Used for producing safflower oil, which has various culinary and medicinal uses. The seeds are also used for bird feed and in the production of cosmetics.
	Nigerseed	Karnataka, Andhra Pradesh	Primarily used for oil extraction to produce nigerseed oil, which is used in cooking and as a drying oil in paints and varnishes. Also used for bird feed.

<b>Commercial Crops</b>	Copra	Kerala, Tamil Nadu	Used for producing coconut oil, which is widely used in cooking, cosmetics, and traditional medicines. Also used as a dried fruit and for coconut-based products.
	Sugarcane	Uttar Pradesh, Maharashtra	Used for sugar production, jaggery, and ethanol. The juice is also consumed as a beverage and used for various culinary purposes.
	Cotton	Gujarat, Maharashtra	Used for producing cotton fiber, a major raw material for the textile industry. Cottonseed oil is used in cooking and for animal feed.
	Raw Jute	West Bengal, Bihar	Used for making jute bags, ropes, twine, and various handicrafts. Jute fiber is also used for geotextiles and as a natural fiber in certain industrial applications.

## Determination of MSP

The Minimum Support Price (MSP) for crops and the Fair and Remunerative Price (FRP) for sugarcane are determined in India to ensure that farmers get a fair and reasonable price for their produce. The Commission for Agricultural Costs and Prices (CACP) calculates the cost of producing crops and sugarcane, taking into account factors like seeds, fertilizers, labor, and other expenses. The government then ensures that the MSP for crops and FRP for Sugarcane is at least 1.5 times the production cost, giving farmers a 50 percent profit margin. The final approval for MSP and FRP is given by the Cabinet Committee on Economic Affairs (CCEA).

## Key concerns related to MSPs

1. **Limited Coverage:** MSPs are announced for a limited number of crops, leaving many agricultural commodities outside the purview of price support. This can create income disparities among farmers and discourage diversification into other crops.
2. **Inadequate Procurement:** The actual procurement of crops at MSPs often falls short of the intended targets due to limited procurement infrastructure, lack of adequate storage facilities, and logistical challenges. This results in many farmers not being able to sell their produce at the MSP.
3. **Regional Disparities:** MSPs are uniform across states and regions, irrespective of variations in production costs, market conditions, and regional demand. This can lead to regional disparities, as farmers in certain areas may face higher production costs and lower market prices compared to MSPs.
4. **Market Distortions:** The reliance on MSPs can create market distortions by artificially inflating prices and impacting market dynamics. This can discourage private investment and hinder the growth of efficient markets.
5. **Benefit to Large Farmers:** MSPs often benefit large farmers more than small and marginal farmers. The procurement operations tend to be concentrated in regions with better infrastructure, leaving farmers in remote areas with limited access to MSP-based procurement.
6. **Fiscal Burden:** The cost of MSP operations, including procurement, storage, and distribution, puts a significant fiscal burden on the government.
7. **Inflationary Pressure:** The high procurement prices and the buffer stock created through MSP operations can contribute to inflationary pressure in the economy, affecting consumers' purchasing power and food affordability.
8. **Distorted Crop Choices:** The focus on MSPs for certain crops can lead to imbalanced cropping patterns, with farmers growing crops covered by MSPs, even if they are not suitable for local agro-ecological conditions or have lower market demand.



### Recommended Policy Reforms

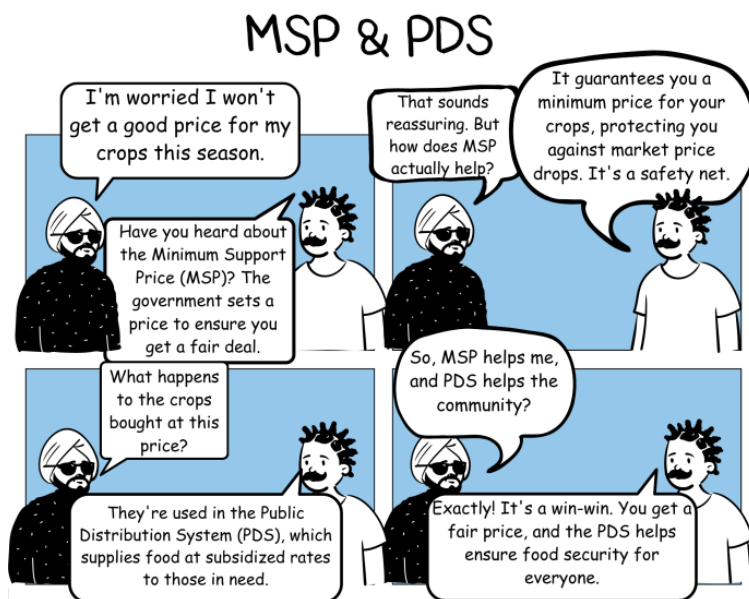
1. **Agricultural Tribunal:** Consider replacing the Commission on Agricultural Costs & Prices (CACP) with an agricultural tribunal, as suggested by the NITI Aayog report. This would provide an independent and transparent mechanism for resolving issues related to pricing and cost in agriculture.
2. **Minimum Reserve Price:** Replace the Minimum Support Price (MSP) with a Minimum Reserve Price, which can serve as a starting point for auctions at mandis. This approach can promote fair and competitive pricing of agricultural produce.
3. **Creation of Unified National Market:** Establish a competitive, stable, and unified national market to enable better price discovery. A well-functioning national market will facilitate efficient trade and benefit both farmers and consumers.

### Public Distribution System (PDS)

The Public Distribution System (PDS) in India is a government-run program aimed at providing essential food grains and other essential commodities to the vulnerable sections of society at affordable prices.

#### Objectives of the PDS

1. **Food Security:** The primary objective of the PDS is to ensure food security by providing access to essential food grains at subsidized rates to the economically weaker sections of society.
2. **Price Stabilization:** The PDS helps stabilize food prices by procuring surplus agricultural produce from farmers at Minimum Support Prices (MSPs) and distributing them at controlled prices to consumers.
3. **Poverty Alleviation:** By making essential food grains available at affordable prices, the PDS aims to reduce the financial burden on low-income households and alleviate poverty.
4. **Nutritional Support:** The PDS also aims to address nutritional deficiencies by providing access to staples like rice, wheat, and coarse grains, especially for vulnerable groups such as pregnant women, lactating mothers, and children.



#### Functioning of the PDS

1. **Procurement:** The government procures food grains from farmers through agencies like the Food Corporation of India (FCI) at MSPs to build buffer stocks.
2. **Allocation:** The procured food grains are allocated to states based on their population and needs, and each state is responsible for the distribution within its jurisdiction.

3. *Fair Price Shops*: Fair Price Shops (FPS) are established at various locations to distribute food grains and other essential commodities to eligible beneficiaries.
4. *Ration Cards*: Eligible households are issued ration cards, categorizing them into priority and non-priority households. These cards determine the quantity and type of commodities they can purchase at subsidized rates.
5. *Subsidized Distribution*: Beneficiaries can purchase food grains and other essential commodities at subsidized rates from FPS, with the price difference being borne by the government.

### Limitations and Challenges of the PDS

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1. *Leakage and Pilferage*: One of the major challenges of the PDS is the issue of leakage and pilferage, where subsidized commodities meant for the poor are diverted to the open market or sold on the black market.
2. *Inclusion and Exclusion Errors*: There are instances of inclusion errors (ineligible households receiving benefits) and exclusion errors (eligible households being excluded from the system), leading to inefficiencies and inequities in targeting.
3. *Quality and Variety*: The PDS primarily focuses on staple food grains, lacking diversity in terms of nutritious food items and other essential commodities.
4. *Infrastructural Challenges*: Limited storage facilities, inadequate transportation infrastructure, and logistical challenges contribute to inefficiencies in procurement, storage, and distribution.
5. *High Administrative Costs*: The administrative costs associated with the PDS, including transportation, storage, and monitoring, are often high, impacting the overall effectiveness of the system.

### Revamping the PDS

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1. *Digitization and Biometric Authentication*: Introducing technology-based solutions like digitized ration cards, Aadhaar-based biometric authentication, and electronic point of sale (ePOS) systems can help reduce leakages and improve transparency.
2. *Targeting and Identification*: Implementing robust systems for targeting and identifying beneficiaries, such as the use of socioeconomic databases, can help ensure that benefits reach the intended beneficiaries.
3. *Strengthening Supply Chain Infrastructure*: Investments in storage facilities, transportation infrastructure, and last-mile connectivity can help streamline procurement, storage, and distribution processes.
4. *Nutritional Diversification*: Expanding the range of commodities available through the PDS to include nutritious food items like pulses, oils, and fortified products can address nutritional deficiencies.
5. *Public-Private Partnership*: Exploring partnerships with private players for last-mile delivery, inventory management, and technology solutions can improve the efficiency and effectiveness of the PDS.
6. *Grievance Redressal Mechanism*: Establishing an effective grievance redressal mechanism to address beneficiary complaints and improve accountability within the system.

### National Food Security Act

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The National Food Security Act (NFSA) is an important legislation in India that aims to provide food security and ensure access to adequate and affordable food for all citizens.

## Salient features

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1. **Targeted beneficiaries:** The NFSA identifies eligible beneficiaries for receiving subsidized food grains. It divides the population into priority households and Antyodaya Anna Yojana (AAY) households. AAY households, considered the poorest of the poor, receive a higher quantity of subsidized food grains.
2. **Coverage:** The act covers up to 75% of the rural population and up to 50% of the urban population. The eligible beneficiaries are identified through a process of household surveys conducted by the state governments.
3. **Subsidized food grains:** Under the NFSA, eligible beneficiaries are entitled to receive 5 kilograms of food grains per person per month at subsidized rates. The subsidized food grains include wheat at Rs. 2 per kilogram, rice at Rs. 3 per kilogram, and coarse grains at Rs. 1 per kilogram.
4. **Maternity benefits:** Pregnant women and lactating mothers are entitled to receive nutritious food, free of charge, during pregnancy and for six months after childbirth under the Integrated Child Development Services (ICDS) scheme.
5. **Women Empowerment:** Eldest women (18 years or above) considered as head of household for issuing ration cards.
6. **Mid-day meal scheme:** The act provides for the continuation of the Mid-Day Meal Scheme, which aims to provide cooked meals to school children to enhance their nutrition and encourage school attendance.
7. **Transparent and accountable system:** The NFSA emphasizes the use of technology and computerization for the identification of beneficiaries, allocation of food grains, and their distribution. It promotes the use of Aadhaar-based biometric authentication to ensure transparency and minimize leakages.
8. **Grievance redressal mechanism:** The act establishes a robust system for grievance redressal at the district and state levels. It provides for the appointment of District Grievance Redressal Officers to address complaints related to the implementation of the act.
9. **State responsibilities:** The NFSA places the responsibility of implementing the act on the respective state governments. They are responsible for the procurement, storage, and distribution of food grains to the eligible beneficiaries in a timely and efficient manner.

The National Food Security Act aims to address issues of hunger, malnutrition, and food insecurity in India. It strives to provide a legal entitlement to food and ensure that no citizen goes hungry.

## Issues of buffer stocks and food security

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### Objective of buffer stocks

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- **Ensure higher returns for farmers** by purchasing food grains at Minimum Support Prices (MSP).
- **Enhance food security** by maintaining adequate stocks to meet the food requirements of the population.
- **Stabilize food prices** by releasing buffer stocks during periods of high prices or scarcity.
- **Support welfare programs** by providing food grains for schemes like the Targeted Public Distribution System (TPDS) and other social programs.

## Buffer norms

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- *Operational stocks*: Food grains used for distribution in welfare programs.
- *Food security stocks*: Reserves maintained to cover any gaps in procurement.
- *Excess stocks*: Surplus beyond the minimum stocking norms, which can be exported, allocated to states, or sold in the open market.

## Challenges of buffer stocks

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- *High logistics and administration costs*, limiting effective storage and distribution.
- *Dual wastage*: Simultaneous occurrence of hunger and food spoilage due to improper storage.
- *Issues with warehousing infrastructure*, including inadequate space and facilities.
- *Wastage* caused by rats, rain, frost, and other factors in outdoor storage.
- *Transportation problems* leading to losses and deterioration during transit.
- *Diversion and theft*, where buffer stocks are misused or redirected to unauthorized recipients or illicit markets.
- *Perceived trade distortion by other countries*, leading to trade disputes.
- *Skewed crop patterns and environmental impact* due to integration of buffer stocks with MSP for rice and wheat.
- *Open-ended procurement* without accurate estimation of overall buffer stock requirements.

## Way forward

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- Implement recommendations from the Shanta Kumar committee to enhance the Financial Corporation of India's (FCI) effectiveness and management.

## Shanta Kumar Committee

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The committee was tasked with reviewing and suggesting reforms for the FCI, the central agency responsible for procuring and distributing food grains in the country.

### Key recommendations

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1. *Reduction in the coverage of the National Food Security Act (NFSA)*: The committee suggested reducing the coverage of subsidized food grains under the NFSA from 67% to 40% of the population. This was proposed to focus resources on the most vulnerable sections of society.
2. *Gradual introduction of cash transfers*: The committee recommended the introduction of direct benefit transfers (DBT) for food subsidies and Minimum Support Price (MSP) payments to farmers.
3. *Decentralized procurement*: FCI should engage in full-fledged grain procurement only in states with weaker procurement capabilities. States with successful procurement systems, such as Haryana, Punjab, Andhra Pradesh, Chhattisgarh, Madhya Pradesh, and Odisha, should handle their own procurement.
4. *Rationalization of food grain storage*: By leveraging private sector warehousing and implementing a negotiable warehouse receipt (NWR) system. This would allow farmers to deposit their produce in authorized warehouses and receive bank advances based on the value of their produce.
5. *Phasing out of the levy rice system*: The committee suggested eliminating the compulsory purchase of rice by the government from mills, known as the levy rice system. It proposed that only the remaining rice beyond a certain percentage could be sold by mills in the open market.

6. *Strategic sales of excess stocks*: The committee recommended that the FCI should have more flexibility to conduct business and sell surplus food grains in the open market or for exports when necessary. This would help prevent unnecessary accumulation of excess stocks.

## Agricultural Revolutions

Revolution	Focus
<b>Green Revolution</b>	Aims to increase agricultural productivity through the introduction of high-yielding crop varieties, modern agricultural techniques, and improved irrigation. It primarily targeted wheat and rice production. The period of this revolution is from the 1960s to the 1970s.
<b>White Revolution</b>	Also known as Operation Flood, it aimed to transform India's dairy sector. It involved the establishment of milk cooperatives, the use of modern dairy technology, and promoting the crossbreeding of cows for higher milk yields. The White Revolution took place from the 1970s to the 1990s.
<b>Blue Revolution</b>	Focused on the development of the fisheries sector. It included measures such as the promotion of aquaculture, modernization of fishing practices, and improvement of fish seed production.
<b>Evergreen Revolution</b>	An extension of the Green Revolution, it emphasizes sustainable agricultural practices and natural resource management. It aims to ensure food security while preserving the environment.
<b>Yellow Revolution</b>	Targeted the production of oilseeds in India. It aimed to reduce India's dependence on oilseed imports and increase domestic production through the use of technology and research.
<b>Golden Fiber Revolution</b>	Focused on the growth of the jute industry in India. It aimed to promote the cultivation, processing, and export of jute and jute products.
<b>Grey Revolution</b>	Centered on the production and distribution of fertilizers in India. It aimed to boost agricultural productivity by ensuring the availability of fertilizers to farmers at affordable prices.
<b>Pink Revolution</b>	Aimed to modernize and boost the production and processing of meat and poultry products.
<b>Silver Revolution</b>	Concentrated on the poultry sector, especially egg production. It involved the adoption of modern poultry farming techniques and technology to increase egg production.
<b>Red Revolution</b>	It involves the modernization of the meat industry.
<b>Protein Revolution</b>	Focused on the production and promotion of pulses (leguminous crops) in India. It aimed to increase the production and consumption of protein-rich pulses to address malnutrition and improve soil health.

## Technology Missions

The objectives of harnessing technology in agriculture are to drive innovation and growth in the sector, increase productivity and efficiency, reduce post-harvest losses, enhance sustainability, and improve the livelihoods of farmers.

### List of Technology Missions in Agriculture

1. Technology Mission on Oilseeds, Pulses, and Maize (TMOPM)
2. National Mission on Oilseeds and Oil Palm (NMOOP)

3. National Mission on Sustainable Agriculture (NMSA)
4. National Livestock Mission
5. Mission for Integrated Development of Horticulture
6. National Mission on Food Processing
7. Technology Mission on Cotton
8. Jute Technology Mission
9. Technology Mission on Coconut
10. National Saffron Mission

### Latest Technologies Used in Agriculture

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1. *Precision Agriculture*: Utilizing GPS, sensors, drones, and satellite imagery to collect data on soil conditions, crop health, and weather patterns for informed decision-making and optimized resource use.
2. *Internet of Things (IoT)*: Deploying IoT devices and sensors in agricultural fields to monitor and control parameters like soil moisture, temperature, and nutrient levels, enabling real-time data and remote monitoring.
3. *Vertical Farming*: Growing crops in vertically stacked layers or shelves with controlled environments and artificial lighting, reducing water consumption and enabling year-round cultivation, especially suitable for urban areas.
4. *Robotics and Automation*: Utilizing robotics for tasks like seeding, planting, harvesting, and sorting to improve efficiency and precision in agricultural operations.
5. *Blockchain*: Transparent and secure recording and sharing of agricultural data, enhancing traceability, reducing fraud, and fostering trust among stakeholders.
6. *Artificial Intelligence (AI) and Machine Learning*: Analyzing vast agricultural data to generate insights and predictions, optimizing crop management, disease detection, yield forecasting, and pest control.
7. *Biotechnology and Genetic Engineering*: Developing genetically modified crops with desirable traits such as pest resistance, drought tolerance, and improved nutritional content.
8. *Farm Management Software*: Providing tools for farm planning, record-keeping, financial analysis, and decision support to enable data-driven decision-making.
9. *Remote Sensing and Satellite Imaging*: Aiding in early detection of crop stress, disease outbreaks, and water management.
10. *Climate-Smart Technologies*: Including drought-resistant crop varieties, water-efficient irrigation systems, agroforestry practices, and carbon sequestration techniques.

### Issues with Technology Missions

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1. *Limited Awareness and Adoption*: Smallholders may lack awareness or resources to adopt new technologies effectively.
2. *Implementation Challenges*: Coordination and integration with stakeholders like Self Help Groups (SHGs), NGOs, and Panchayati Raj Institutions may pose challenges.
3. *Financial Constraints*: Small and marginal farmers may face financial barriers in adopting expensive technologies.
4. *Inadequate Infrastructure*: Insufficient infrastructure, such as cold storage facilities and post-harvest management systems, may hinder technology adoption.
5. *Gap between Research and Farm*: Slow adoption of research findings on the ground may hinder technology adoption and utilization.



## Way Forward

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1. *Embrace Digital Technologies*: Promote the use of blockchain, big data analytics, artificial intelligence, and precision agriculture to improve efficiency and decision-making in farming.
2. *Empower Smallholder Farmers*: Provide access to finance, markets, and information to support smallholders in adopting new technologies.
3. *Foster Public-Private Partnerships*: Collaborate with private sector entities to co-create and commercialize technologies, making them more accessible to farmers.
4. *Promote Capacity Building*: Invest in training programs and knowledge dissemination to enhance farmers' skills in using modern technologies effectively.
5. *Emphasize Sustainability*: Encourage the adoption of sustainable practices like integrated pest management, conservation agriculture, and agroforestry.
6. *Strengthen Infrastructure*: Develop and improve infrastructure, including cold storage facilities and market linkages, to reduce post-harvest losses.
7. *Promote Farmer Entrepreneurship*: Provide training, mentorship, and financial resources to empower farmers as "agripreneurs" and enhance their entrepreneurial skills.
8. *Monitor and Evaluate*: Establish robust monitoring and evaluation mechanisms to assess the effectiveness and impact of technology missions, allowing for continuous improvement and learning.

## Economics of animal rearing

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### Types

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1. *Dairy Farming*: Involves raising cattle primarily for milk production, which is a valuable source of nutrition and an essential part of a balanced diet.
2. *Poultry Farming*: Focuses on raising chickens and producing eggs for human consumption, providing a significant source of protein.
3. *Goat and Sheep Farming*: Involves raising goats and sheep for various purposes, such as milk production, meat, wool, or hides, offering a diversified source of income.
4. *Beekeeping*: Involves the cultivation of honeybees for honey production, which is not only a valuable food item but also plays a crucial role in biodiversity and crop pollination.
5. *Fish Farming (Aquaculture)*: Focuses on breeding and rearing fish in controlled environments, contributing to the production of a vital protein source for human consumption.
6. *Sericulture*: Involves the cultivation of silkworms to produce silk, which is a highly valuable and sought-after natural fiber.

### Benefits of Animal Rearing

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1. *Source of Food*: Animal rearing provides a continuous supply of essential food items like meat, milk, eggs, and honey, contributing to a balanced diet.
2. *Nutrient Recycling*: Animals consume agricultural byproducts, crop residues, and grass, converting them into organic fertilizer through their manure.
3. *Soil Fertility and Health*: Animal manure is rich in essential nutrients like nitrogen, phosphorus, and potassium, which enhance soil fertility, structure, moisture retention, and nutrient availability.
4. *Integrated Pest Management*: Certain animals like chickens can help in pest control by consuming insects, while goats graze on weed-infested areas.

5. *Diversification and Income Generation*: Animal rearing diversifies income streams as farmers can earn from various products like meat, milk, eggs, wool, or honey.
6. *Energy and Labor Utilization*: In some cases, animals are used for tilling fields, reducing the need for mechanized labor.
7. *Sustainability and Resilience*: Animal rearing practices, when done sustainably, contribute to biodiversity conservation and improve the resilience of agricultural systems.
8. *Cultural and Social Significance*: In many cultures, certain animals hold symbolic and social importance and may be considered status symbols.
9. *Insurance*: Animals can serve as collateral for emergency loans, providing a safety net for farmers during challenging times.

### Challenges in Animal Rearing

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1. *Limited Grazing Land*: In densely populated areas, the availability of grazing land for livestock becomes limited, leading to overgrazing and degradation of pastures.
2. *Inadequate Animal Healthcare*: Access to quality veterinary care is a challenge, especially in rural areas, which can result in the spread of diseases and reduced productivity of livestock.
3. *Poor Breeding Practices*: Due to inadequate breeding practices, there may be a decline in the quality and productivity of animals over time.
4. *Lack of Proper Infrastructure*: Insufficient infrastructure for housing, feeding, and waste management can adversely affect the health and well-being of livestock.
5. *Feed Availability and Quality*: Farmers may face challenges in obtaining adequate and quality feed, resulting in nutritional deficiencies in animals.
6. *Climate Change and Natural Disasters*: Events like floods, droughts, and heatwaves can cause significant loss of livestock and disrupt animal rearing practices.
7. *Lack of Financial Support and Credit*: Small-scale farmers may struggle to access financial support and credit for investing in animal rearing.
8. *Socio-Cultural Factors*: Some socio-cultural practices, such as using animals for religious rituals or sacrifices, can lead to unsustainable practices and negative impacts on animal populations.
9. *Lack of Market Access*: Difficulty in accessing markets for selling livestock and animal products can discourage farmers from investing in animal rearing.

### Government Initiatives

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1. *National Livestock Mission (NLM)*: The NLM aims to promote sustainable livestock development by providing financial and technical support for breed improvement, livestock healthcare, fodder development, and strengthening of infrastructure.
2. *National Dairy Plan (NDP)*: The NDP focuses on breed improvement, animal nutrition, and providing support to dairy cooperatives and farmers to enhance milk productivity.
3. *Rashtriya Gokul Mission*: This initiative focuses on the conservation and development of indigenous cattle breeds. It establishes integrated cattle development centers, semen stations, and bull mother farms for breed improvement.
4. *Livestock Insurance Scheme*: The government provides insurance coverage to livestock owners to protect them from losses due to natural calamities or accidents.
5. *Fodder Development Programs*: Government initiatives aim to improve the availability and quality of feed and fodder for livestock.



6. *Veterinary Services and Animal Healthcare*: The government establishes veterinary hospitals and mobile veterinary clinics and conducts vaccination and disease control programs to enhance animal healthcare.

## **Committee on Doubling Farmers' Income**

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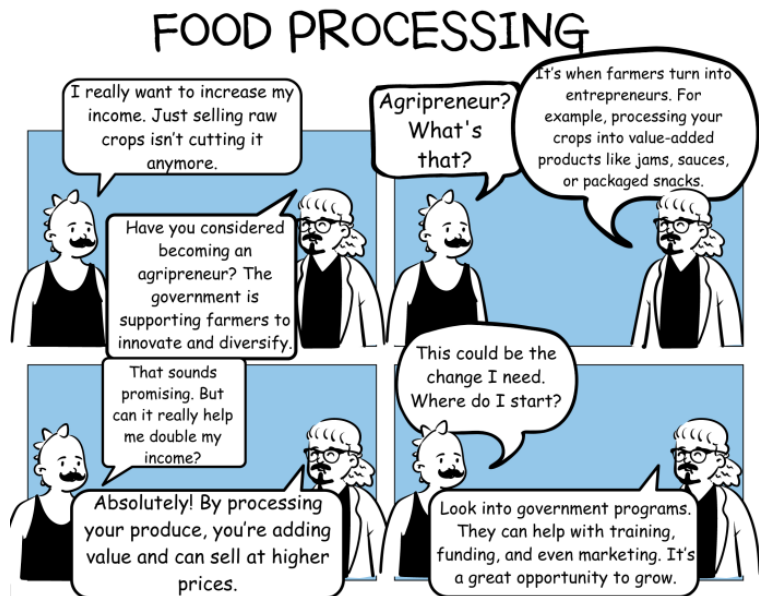
The Dalwai Committee, also known as the Committee on Doubling Farmers' Income, was formed with the objective of recommending strategies and action plans to double farmers' income in India. The committee identified various areas of focus to achieve this goal:

1. *Diversification of Agricultural Activities*: The committee emphasized the promotion of high-value horticulture, livestock farming, fisheries, and agro-forestry. By diversifying agricultural activities, farmers can tap into new income streams and reduce their dependency on single-crop farming.
2. *Improving Productivity and Efficiency*: Adopting advanced agricultural practices, mechanization, and the use of modern technologies are crucial to enhancing productivity and efficiency in the agricultural sector. These measures can lead to increased yields and reduced production costs.
3. *Agri-entrepreneurship and Value Addition*: The committee proposed the establishment of agri-startups, agro-processing industries, and cold chains to encourage agri-entrepreneurship and value addition. This would help in reducing post-harvest losses and adding value to agricultural produce.
4. *Access to Credit and Insurance*: Strengthening institutional credit mechanisms and expanding the coverage of crop insurance schemes were recommended to provide farmers with better financial support and risk mitigation.
5. *Marketing and Market Reforms*: Developing efficient agricultural produce markets, promoting contract farming, and enabling direct marketing opportunities would help farmers get better prices for their produce and reduce their dependency on middlemen.
6. *Irrigation and Water Management*: The committee stressed the importance of investing in irrigation infrastructure and promoting efficient water management practices. Access to irrigation can lead to increased crop yields and better water use efficiency.
7. *Strengthening Research and Extension Services*: Enhancing investment in research and extension services can help in disseminating improved agricultural practices and technologies to farmers.
8. *Skill Development and Capacity Building*: Providing training and capacity-building programs to farmers in technology adoption, farm management, and entrepreneurship can empower them to make informed decisions and improve their income.
9. *Institutional Reforms*: The committee recommended the establishment of a National Commission on Agricultural Development and Reforms to facilitate policy planning and implementation for the overall growth of the agricultural sector.

## Food Processing Industry

### Scope and Significance

1. **Value Addition and Preservation:** Food processing extends the shelf life of agricultural produce, reducing post-harvest losses and increasing the value of raw materials.
2. **Employment Generation:** Food processing creates job opportunities in various stages of the value chain, contributing to rural development and economic growth.
3. **Agricultural Growth and Income Enhancement:** By creating demand for processed products, food processing encourages farmers to focus on high-value crops and diversify their agricultural activities, leading to increased income.
4. **Food Security and Nutrition:** Food processing enables the production of processed and fortified foods, contributing to improved food security and enhanced nutrition.
5. **Export Potential:** Processed foods meeting international standards have export potential, boosting the agricultural export sector and earning foreign exchange for the country.
6. **Technology Adoption and Innovation:** Food processing industries adopt advanced technologies, adhere to food safety standards, and implement quality control measures, driving innovation and efficiency in the sector.
7. **Rural and Small-Scale Entrepreneurship:** Food processing can promote rural entrepreneurship through the establishment of cottage industries, empowering women and reducing migration from rural to urban areas.
8. **Ancillary Industries and Infrastructure Development:** Food processing leads to the development of ancillary industries such as packaging, cold storage, logistics, and equipment manufacturing, boosting overall economic growth.



### Location considerations for Food Processing Industries

1. **Proximity to Raw Materials:** Food processing units should be close to the source of raw materials, especially for perishable agricultural commodities, to minimize transportation costs and ensure freshness.
2. **Access to Markets:** Locations near major cities, transportation networks (roads, railways, ports), and distribution centers enable efficient supply chain management and timely delivery of processed products.
3. **Availability of Utilities and Infrastructure:** Access to water, electricity, and other utilities is essential for smooth operations of food processing industries.

4. *Skilled Labor Availability*: Availability of trained personnel, such as food technologists, quality control experts, and processing operators, is crucial for maintaining high-quality standards.
5. *Government Policies and Incentives*: Favorable government policies, tax incentives, subsidies, and infrastructure support can attract food processing industries to specific locations.
6. *Environmental Considerations*: Compliance with water availability, waste management regulations, and proximity to environmentally sensitive areas is vital for sustainable food processing practices.
7. *Proximity to Complementary Industries*: Being close to packaging suppliers, cold storage facilities, and ingredient suppliers facilitates efficient supply chain management.
8. *Climatic Conditions*: For specific food processing industries, such as fruit and vegetable processing, climatic conditions may play a significant role in location selection.
9. *Regional Agricultural Strengths*: Food processing plants may locate in regions with high production of specific agricultural commodities that align with their processing requirements.
10. *Economic Factors*: Land and labor costs, taxation, and overall business climate in a particular region are important economic factors influencing location decisions for food processing industries.

### Upstream Requirements for Food Processing Industries

1. *Raw Materials*: Ensuring a reliable and consistent supply of high-quality raw materials is crucial for food processing industries to maintain product consistency and meet production demands.
2. *Supply Chain Management*: Efficient supply chain management is essential to ensure a steady flow of raw materials from farms and other sources to the processing facilities.
3. *Quality Control*: Implementing stringent quality control measures is necessary to ensure the freshness, safety, and traceability of raw materials used in food processing.
4. *Research and Development*: Continuous research and development efforts are required to develop new varieties, improve agricultural practices, and meet the specific requirements of food processing industries.
5. *Sustainable Sourcing*: Adopting sustainable sourcing practices contributes to the overall sustainability of the food processing industry, addressing environmental and social concerns.

### Downstream Requirements for Food Processing Industries

1. *Processing Facilities*: Well-equipped and state-of-the-art processing facilities, including processing plants, mills, canning units, freezing facilities, packaging lines, and quality control laboratories, are vital for efficient food processing.
2. *Skilled Workforce*: Having a skilled and trained workforce proficient in food processing techniques, food safety protocols, and quality control is essential for maintaining product standards and ensuring consumer safety.
3. *Product Development and Innovation*: Continuous product development and innovation are necessary to create new food products, improve existing formulations, and meet changing consumer preferences and market trends.
4. *Packaging and Labeling*: Appropriate packaging and labeling play a crucial role in maintaining product quality, extending shelf life, and ensuring food safety while complying with packaging regulations and standards.
5. *Distribution and Logistics*: Establishing efficient distribution and logistics networks, including transportation, warehousing, and inventory management, is essential for timely delivery of processed products to retailers and consumers.

6. *Marketing and Promotion*: Effective marketing and promotion strategies are required to create awareness, build brand reputation, and reach target consumers through advertising, branding, digital marketing, and consumer engagement initiatives.
7. *Compliance with Regulations*: Adhering to regulations related to food safety, labeling, nutritional content, and packaging is critical to ensuring consumer safety, quality assurance, and legal compliance in the food processing industry.

### Key Components of Supply Chain Management in the Food Processing Industry

1. *Supplier Management*: Establishing strong relationships with reliable suppliers to ensure a consistent and quality supply of raw materials.
2. *Demand Forecasting and Planning*: Using historical data, market trends, and customer demand to optimize production schedules and inventory levels.
3. *Inventory Management*: Efficiently managing inventory levels to minimize the risk of stockouts and excess inventory.
4. *Quality Control*: Implementing regular inspections and testing to ensure product safety and compliance with regulations.
5. *Cold Chain Management*: Managing temperature-sensitive products to maintain the quality and freshness of perishable items like dairy, meats, and fresh produce.
6. *Logistics and Transportation*: Ensuring timely delivery and cost-effective transportation of finished products to distribution centers and retailers.
7. *Traceability and Recall Management*: Implementing systems to track product origin and enabling timely recalls in case of quality or safety issues.
8. *Collaboration and Information Sharing*: Building strong partnerships and sharing information among supply chain partners to respond promptly to market changes.
9. *Continuous Improvement*: Constantly seeking ways to reduce costs and enhance customer satisfaction through process improvement.
10. *Sustainability and Ethical Practices*: Promoting responsible sourcing, reducing waste, and ensuring fair trade practices to support sustainability initiatives.

### Challenges in Supply Chain Management

1. *Food Safety and Quality Assurance*: Ensuring compliance with regulations and preventing foodborne illnesses.
2. *Supply Chain Complexity*: Managing multiple suppliers, distributors, and retailers can be challenging.
3. *Changing Consumer Preferences and Trends*: Adapting to demands for healthier, sustainable, and convenient food products.
4. *Cost and Price Volatility*: Coping with fluctuating costs of raw materials, energy, and transportation.
5. *Shelf Life and Waste Management*: Maximizing shelf life and reducing food waste to minimize losses.
6. *Changing Regulatory Landscape*: Staying updated with ever-changing food safety and labeling regulations, especially for international trade.
7. *Skills Gap and Workforce Development*: Training and retaining a skilled workforce with expertise in food processing and supply chain management.
8. *Sustainability and Environmental Impact*: Balancing production demands with reducing water usage, energy consumption, and managing waste.

9. *Volatile Agricultural Sector*: Navigating challenges related to weather conditions, crop failures, and price volatility.
10. *Technological Advancements and Automation*: Adopting and integrating technological advancements in supply chain management, which can be challenging for small and medium-sized enterprises.

### Government Initiatives to Promote Food Processing Industry

1. *Pradhan Mantri Kisan SAMPADA Yojana*: This scheme focuses on creating modern infrastructure and value chains in the food processing sector. It includes sub-schemes like Mega Food Parks Scheme, Integrated Cold Chain and Value Addition Infrastructure, Infrastructure for Agro-Processing Clusters, Creation of Backward and Forward Linkages, and Food Safety and Quality Assurance Infrastructure.
2. *Make in India*: This initiative aims to promote manufacturing and investment in India, including the food processing industry, by providing ease of doing business and attracting investments.
3. *National Mission on Food Processing (NMFP)*: The mission aims to support the food processing industry through capacity building, training, research and development, technology upgradation, and infrastructure development.
4. *Operation Greens*: This initiative aims to stabilize the supply and prices of perishable agricultural commodities like fruits and vegetables by establishing food processing units, cold storage facilities, and transportation infrastructure.
5. *Pradhan Mantri Formalization of Micro Food Processing Enterprises (PM FME) Scheme*: This scheme provides financial, technical, and business support to micro food processing enterprises, including skill development, access to credit, technology upgradation, and marketing assistance.
6. *Agri Export Policy*: This policy aims to boost agricultural exports, including processed food products, by providing policy support, infrastructure development, and market access.
7. *Infrastructure Development Fund (IDF)*: The IDF aims to bridge the gaps in the supply chain infrastructure for the food processing industry, facilitating the smooth movement of agricultural produce and processed goods.

### Land Reforms in India

Land reforms in India have been crucial in addressing historical inequalities in landownership, protecting the rights of tenants and marginalized farmers, and promoting sustainable land management. Some of the key aspects and successes of land reforms are as follows:

#### Key Aspects of Land Reforms

1. *Abolition of Zamindari System*: The abolition of the feudal Zamindari system resulted in the transfer of ownership rights to actual cultivators, breaking the concentration of land in the hands of a few large landowners.
2. *Land Ceiling Laws*: The implementation of land ceiling laws imposed limits on the maximum area of agricultural land that an individual or family could own. This led to the redistribution of surplus land from large landowners to landless and marginalized farmers, promoting land equity.
3. *Tenancy Reforms*: Tenancy reforms aimed to protect the rights of tenants and sharecroppers. It provided security of tenure, fair rent regulations, rights to purchase land, and safeguards against eviction, empowering tenants and improving their socio-economic status.

4. *Consolidation of Holdings*: Land consolidation programs sought to consolidate small and fragmented landholdings, making them more viable and enabling better agricultural practices. It involved voluntary land exchanges and the reorganization of land parcels.
5. *Joint Forest Management (JFM)*: Joint Forest Management initiatives involved local communities in the conservation and management of forests. It addressed conflicts between forest conservation and the rights of indigenous communities and fostered sustainable forest practices.
6. *Tribal and Indigenous Land Rights*: The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, provided legal recognition of ancestral land and forest resource rights to tribal and indigenous communities, empowering them to participate in decision-making.

### Successes of Land Reforms

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1. *Abolition of Zamindari System*: The abolition of the Zamindari system resulted in a significant redistribution of landownership, breaking the feudal structure and benefiting millions of small farmers.
2. *Tenancy Reforms*: Tenancy reforms provided security to sharecroppers and tenants, reducing their vulnerability and improving agricultural productivity.
3. *Tribal and Indigenous Land Rights*: The recognition of forest rights empowered tribal and indigenous communities to protect their traditional lands and resources, safeguarding their livelihoods and cultural heritage.
4. *Consolidation of Holdings*: Land consolidation efforts led to the reorganization of land parcels, making agriculture more efficient and reducing land fragmentation.

### Challenges and Limitations of Land Reforms

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1. *Incomplete Implementation*: Land reform measures may face challenges in their implementation due to bureaucratic hurdles, legal complexities, and resistance from influential landowners. This can lead to delays and incomplete outcomes.
2. *Poor Land Records*: Inadequate and outdated land records and ambiguous land titles can lead to land disputes and litigation, making it difficult for farmers to establish clear ownership.
3. *Lack of Access to Credit and Resources*: Despite land reforms, small and marginal farmers often struggle to access credit and necessary resources to improve their agricultural practices and livelihoods.
4. *Emergence of New Forms of Land Concentration*: While land reforms aimed to distribute land more equitably, the emergence of corporate land acquisitions and large-scale agribusiness can lead to new forms of land concentration, raising concerns about equity and the rights of marginalized farmers.
5. *Changing Agricultural Scenario*: Rapid urbanization, growth of non-agricultural sectors, and contract farming have led to shifts in land use patterns. Adapting land reform policies to address these evolving dynamics is crucial.
6. *Political Will and Resistance*: Land reforms may face resistance from influential landowners and vested interests who may not be willing to give up their land or share it with others.

### Government Initiatives to Address Land Reforms

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1. *Digitization of Land Records*: The government has initiated the Digital India Land Records Modernisation Programme (DILRMP) to digitize land records, establish clear land titles, facilitate transactions, and reduce property fraud.



2. *Land Acquisition Act, 2013*: The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation, and Resettlement Act provides a legal framework for land acquisition, ensuring fair compensation and rehabilitation of affected individuals and communities.
3. *Model Agricultural Land Leasing Act, 2016*: This model act aims to facilitate leasing of agricultural land, improving access to land for landless and marginal farmers and enabling them to access loans through institutional credit.
4. *Model Contract Farming Act, 2018*: The model act ensures fair agreements between farmers and agribusinesses and protects the interests of small farmers in contract farming arrangements.
5. *SWAMITVA Scheme*: The Survey of villages and mapping with improvised technology in village areas scheme aims to map residential land ownership in rural areas using modern technology like drones. This helps establish clear property rights and enables access to bank finance for rural landowners.

These government initiatives seek to address the challenges of land reforms and promote equitable landownership, secure land tenure, and access to resources for farmers, fostering sustainable and inclusive agricultural development.

## Additional Terms and Concepts

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### *Hydroponics*

Hydroponics is a method of growing plants without soil, using nutrient-rich water to provide all the essential nutrients the plants need. This method allows for precise control of nutrient levels and can result in faster plant growth.

### *Aquaponics*

Aquaponics is a sustainable farming method that combines aquaculture (raising fish) with hydroponics (growing plants in water). In this system, fish waste provides nutrients for the plants, and the plants help filter and clean the water for the fish.

### *GMOs (Genetically Modified Organisms)*

GMOs are organisms whose genetic material has been altered using genetic engineering techniques. This modification is done to introduce desirable traits, such as resistance to pests, diseases, or environmental conditions, and to improve crop yields.

Example: Bt cotton is a genetically modified variety of cotton grown in India. It has been engineered to produce a toxin (derived from the bacterium *Bacillus thuringiensis*) that is harmful to certain insect pests. As a result, farmers growing Bt cotton experience fewer pest problems and can reduce their use of chemical pesticides, leading to higher crop yields and lower production costs.

### *Monoculture*

Monoculture is the agricultural practice of growing a single crop or plant species in a specific field or farming system year after year. This method focuses on maximizing the yield of one type of crop.

### *Permaculture*

Permaculture is a sustainable farming system that mimics natural ecosystems. It involves designing agricultural landscapes that are self-sufficient, resilient, and require minimal external inputs.

A permaculture farm integrates various plants, animals, and insects in a way that benefits all. The farmer plants fruit trees, vegetables, herbs, and legumes together, creating a diverse and productive ecosystem. Chickens roam the farm, eating pests and providing manure, which enriches the soil.

### *Biochar*

Biochar is a form of charcoal produced from organic materials (biomass) like wood, crop residues, or manure through a process called pyrolysis. It is used to improve soil health and sequester carbon.

### *Bioremediation*

Bioremediation is the process of using microorganisms, plants, or fungi to clean up contaminated environments, such as soil, water, or air, by breaking down pollutants into less harmful substances.

Example: An oil spill occurs near the coast of Gujarat. Scientists introduce oil-eating bacteria to the contaminated area. These bacteria break down the oil into harmless byproducts, gradually cleaning up the spill and restoring the environment.



## *Carbon Farming*

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Carbon farming involves agricultural practices that increase the amount of carbon stored in the soil and vegetation. This helps mitigate climate change by reducing the amount of CO<sub>2</sub> in the atmosphere.

A farmer can adopt carbon farming practices such as no-till farming, cover cropping, and agroforestry. These practices enhance soil organic matter, sequestering carbon and improving soil health. The farmer can also earn carbon credits, which can be sold to companies looking to offset their emissions.

## *Phytoremediation*

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Phytoremediation is the use of plants to remove, degrade, or contain contaminants from soil and water. Certain plants can absorb heavy metals and other pollutants, making them useful for cleaning up contaminated sites.

Example: A mining site in Jharkhand is contaminated with heavy metals. Scientists plant sunflowers and poplars, which are known to absorb heavy metals from the soil. Over time, these plants extract the contaminants, gradually reducing the pollution levels in the soil.

## *Ecolabeling*

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Ecolabeling is a labeling system for consumer products that identifies products as having a lower environmental impact compared to others in the same category. It helps consumers make environmentally friendly choices.

Example: A company in India produces organic cotton clothing. Their products are certified with an ecolabel, indicating that the cotton was grown without harmful pesticides and the manufacturing process follows sustainable practices. Consumers who care about the environment can choose these products, knowing they have a reduced ecological footprint.

## Previous Years Prelims Questions

1.	<p>Under the Kisan Credit Card scheme, short-term credit support is given to farmers for which of the following purposes ?</p> <p>(1) Working capital for maintenance of farm assets harvesters,  (2) Purchase of combine tractors and mini trucks requirements of farm  (3) Consumption households  (4) Post-harvest expenses  (5) Construction of family house and setting up of village cold storage facility</p> <p>Select the correct answer using the code given below:</p> <p>(a) 1, 2 and 5 only  (b) 1, 3 and 4 only  (c) 2,3,4 and 5 only  (d) 1, 2, 3, 4 and 5</p>	2020
2.	<p>In India, which of the following can be considered as public investment in agriculture?</p> <p>(1) Fixing Minimum Support Price for agricultural produce of all crops  (2) Computerization of Primary Agricultural Credit Societies  (3) Social Capital development  (4) Free electricity supply to farmers  (5) Waiver of agricultural loans by the banking system  (6) Setting up of cold storage facilities by the governments.</p> <p>In India, which of the following can be considered as public investment in agriculture?</p> <p>Select the correct answer using the code given below:</p> <p>(a) 1, 2 and 5 only  (b) 1, 3, 4 and 5 only  (c) 2, 3 and 6 only  (d) 1, 2, 3, 4, 5 and 6</p>	2020
3.	<p>Consider the following statements:</p> <p>(1) In terms of short-term credit delivery to the agriculture sector, District Central Cooperative Banks (DCCBs) deliver more credit in comparison to Scheduled Commercial Banks and Regional Rural Banks.  (2) One of the most important functions of DCCBs is to provide funds to the Primary Agricultural Credit Societies.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only</p>	2020

	<p>(b) 2 only</p> <p>(c) Both 1 and 2</p> <p>(d) Neither 1 nor 2</p>	
4.	<p>The economic cost of food grains to the Food Corporation of India is Minimum Support Price and bonus (if any) paid to the farmers plus</p> <p>(a) transportation cost only</p> <p>(b) interest cost only</p> <p>(c) procurement incidentals and distribution cost</p> <p>(d) procurement incidentals and charges for godowns</p>	2019
5.	<p>Consider the following statements</p> <p>(1) The quantity of imported edible oils is more than the domestic production of edible oils in the last five years.</p> <p>(2) The Government does not impose any customs duty on all the imported edible oils a special case.</p> <p>Which of two statements given above is/are correct</p> <p>(a) 1 only</p> <p>(b) 2 only</p> <p>(c) Both 1 and 2</p> <p>(d) Neither 1 nor 2</p>	2018
6.	<p>With reference to pre-packaged items in India, it is mandatory to the manufacturer to put which of the following information on the main label, as per the Food Safety and Standards (Packaging and Labelling) Regulations, 2011?</p> <p>(1) List of ingredients including additives</p> <p>(2) Nutrition information</p> <p>(3) Recommendations, if any, made by the medical profession about the possibility of any allergic reactions</p> <p>(4) Vegetarian/non-vegetarian</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1, 2 and 3</p> <p>(b) 2, 3 and 4</p> <p>(c) 1, 2 and 4</p> <p>(d) 1 and 4 only</p>	2016
7.	<p>The Fair and Remunerative Price (FRP) of sugarcane is approved by the</p>	2015

	<p>(a) Cabinet Committee on Economic Affairs</p> <p>(b) Commission for Agricultural Costs and Prices</p> <p>(c) Directorate of Marketing and Inspection, Ministry of Agriculture</p> <p>(d) Agricultural Produce Market Committee</p>	
8.	<p>In India, markets in agricultural products are regulated under the</p> <p>(a) Essential Commodities Act, 1955</p> <p>(b) Agricultural Produce Market Committee Act enacted by States</p> <p>(c) Agricultural Produce (Grading and Marking) Act, 1937</p> <p>(d) Food Products Order, 1956 and Meat and Food Products Order, 1973</p>	2015
9.	<p>Which one of the following best describes the concept of ‘Small Farmer Large Field’?</p> <p>(a) Resettlement of a large number of people, uprooted from their countries due to war, by giving them large cultivable land which they cultivate collectively and share the produce</p> <p>(b) Many marginal farmers in an area organize themselves into groups and synchronize and harmonize selected agricultural operations</p> <p>(c) Many marginal farmers in an area together make a contract with a corporate body and surrender their land to the corporate body for a fixed term for which the corporate body makes a payment of agreed amount to the farmers</p> <p>(d) A company extends loans, technical knowledge and material inputs to a number of small farmers in an area so that they produce the agricultural commodity required by the company manufacturing for its process and commercial production</p>	2023
10.	<p>Consider the following statements:</p> <p>1. The Government of India provides Minimum Support Price for niger seeds.</p> <p>2. Niger is cultivated as a Kharif crop.</p> <p>3. Some tribal people in India use niger seed oil for cooking.</p> <p>How many of the above statements are correct?</p> <p>(a) Only one</p> <p>(b) Only two</p> <p>(c) All three</p> <p>(d) None</p>	2023

## Previous Years Mains Questions

1.	What are the major challenges of Public Distribution System (PDS) in India? How can it be made effective and transparent ?	2022
2.	Elaborate the scope and significance of the food processing industry in India.	2022
3.	What are the main bottlenecks in upstream and downstream process of marketing of agricultural products in India ?	2022
4.	What is Integrated Farming System ? How is it helpful to small and marginal farmers in India ?	2022
5.	How did land reforms in some parts of the country help to improve the socio-economic conditions of marginal and small farmers?	2021
6.	How and to what extent would micro-irrigation help in solving India's water crisis? (Answer in 150 words)	2021
7.	What are the salient features of National Food Security Act, 2013? How has the Food Security Bill helped in eliminating hunger and malnutrition in India? (Answer 250 words)	2021
8.	What are the present challenges before crop diversification? How do emerging technologies provide an opportunity for crop diversification?	2021
9.	What are the main constraints in transport and marketing of agricultural produce in India?	2020
10.	What are the challenges and opportunities of food processing sector in the country? How can income of the farmers be substantially increased by encouraging food processing?	2020
11.	What are the major factors responsible for making rice-wheat system a success? In spite of this success how has this system become bane in India?	2020
12.	Suggest measures to improve water storage and irrigation system to make its judicious use under depleting scenario.	2020
13.	How far is the Integrated Farming System (IFS) helpful in sustaining agricultural production.	2019
14.	Elaborate on the impact of the National Watershed Project in increasing agricultural production from water-stressed areas.	2019
15.	How has India benefited from the contributions of Sir M. Visvesvaraya and Dr. M. S. Swaminathan in the fields of water engineering and agricultural science respectively?	2019

16.	What are the reformative steps taken by the Government to make the food grain distribution system more effective?	2019
17.	Elaborate on the policy taken by the Government of India to meet the challenges of the food processing sector.	2019
18.	What do you mean by the Minimum Support Price (MSP)? How will MSP rescue the farmers from the low-income trap?	2018
19.	Examine the role of supermarkets in supply chain management of fruits, vegetables, and food items. How do they eliminate the number of intermediaries?	2018
20.	Assess the role of the National Horticulture Mission (NHM) in boosting the production, productivity, and income of horticulture farms. How far has it succeeded in increasing the income of farmers?	2018
21.	How has the emphasis on certain crops brought about changes in cropping patterns in the recent past? Elaborate the emphasis on millet production and consumption.	2018
22.	Explain various types of revolutions, took place in Agriculture after Independence in India. How these revolutions have helped in poverty alleviation and food security in India?	2017
23.	What are the reasons for poor acceptance of cost-effective small processing units? How can the food processing unit be helpful to uplift the socio-economic status of poor farmers?	2017
24.	What are the major reasons for declining rice and wheat yield in the cropping system? How crop diversification is helpful to stabilize the yield of the crop in the system? (Answer in 250 words)	2017
25.	How do subsidies affect the cropping pattern, crop diversity and economy of farmers? What is the significance of crop insurance, minimum support price and food processing for small and marginal farmers?	2017
26.	What is water-use efficiency? Describe the role of micro-irrigation in increasing water-use efficiency.	2016
27.	Discuss the role of land reforms in agricultural development. Identify the factors that were responsible for the success of land reforms in India.	2016
28.	Given the vulnerability of Indian agriculture to vagaries of nature, discuss the need for crop insurance and bring out the salient features of the Pradhan	2016

	Mantri Fasal Bima Yojana (PMFBY).	
29.	Livestock rearing has a big potential for providing non-farm employment and income in rural areas. Discuss suggesting suitable examples.	2015
30.	In view of the declining average size of land holdings in India which has made agriculture non-viable for a majority of farmers, should contract farming and land leasing be promoted in agriculture? Critically evaluate the pros and cons.	2015
31.	There is also a point of view that agriculture produce market committees (APMCs) set up under the state acts have not only impeded the development of agriculture but also have been the cause of food inflation in India. Critically examine.	2014
32.	“In the villages itself, no form of credit organization will be suitable except the cooperative society.” – All Indian rural credit survey. Discuss this statement in the background of agriculture finance in India. What constraints and challenges do financial institutions supply agricultural finances? How can technology be used to better reach and serve rural clients?	2014
33.	Food Security Bill is expected to eliminate hunger and malnutrition in India. Critically discuss various apprehensions in its effective implementation along with the concerns it has generated in WTO.	2013
34.	What are the different types of agriculture subsidies given to farmers at the national and at state levels? Critically analyse the agricultural subsidy regime with reference to the distortions created by it.	2013
35.	India needs to strengthen measures to promote the pink revolution in the food industry for ensuring better nutrition and health. Critically elucidate the statement.	2013
36.	Establish relationships between land reforms, agricultural productivity and elimination of poverty in the Indian economy. Discuss the difficulties in designing and implementation of agriculture – friendly land reforms in India.	2013
37.	How does e-Technology help farmers in production and marketing of agricultural produce? Explain it.	2023
38.	State the objectives and measures of land reforms in India. Discuss how land ceiling policy on landholding can be considered as an effective reform under economic criteria.	2023
39.	Explain the changes in cropping pattern in India in the context of changes in consumption pattern and marketing conditions.	2023

40.	What are the direct and indirect subsidies provided to farm sector in India? Discuss the issues raised by the World Trade Organization(WTP) in relation to agricultural subsidies.	2023
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**Answers**

1.	B	2.	C
3.	B	4.	C
5.	A	6.	C
7.	A	8.	B
9.	B	10.	C



# 14

**CHAPTER**

INDUSTRY 



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# Chapter 14

## Industry

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The industrial sector, also known as the manufacturing sector is involved in the production of goods, such as machinery, chemicals, textiles, and automobiles. It also includes industries that provide infrastructure, like power and transportation.

### Historical Evolution of the Manufacturing Sector in India

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#### Pre-independence Era

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Prior to India's independence in 1947, the manufacturing sector was predominantly centered around traditional industries, such as textiles, handicrafts, and agro-processing. Industrialization was limited, and the country largely relied on agriculture for its economic sustenance.

#### Post-independence Industrialization

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After independence, India adopted a planned economy model, and industrialization became a key focus of the government's development strategy. The introduction of five-year plans aimed to accelerate industrial growth and reduce dependency on imports. The public sector played a dominant role in manufacturing, with the establishment of large-scale industries in steel, heavy machinery, and capital goods.

The Second Five-Year Plan (1956-1961) witnessed the establishment of the Indian Institutes of Technology (IITs) and the Indian Institutes of Management (IIMs), which contributed to a skilled workforce in the engineering and management fields.

#### Liberalization and Economic Reforms in the 1990s

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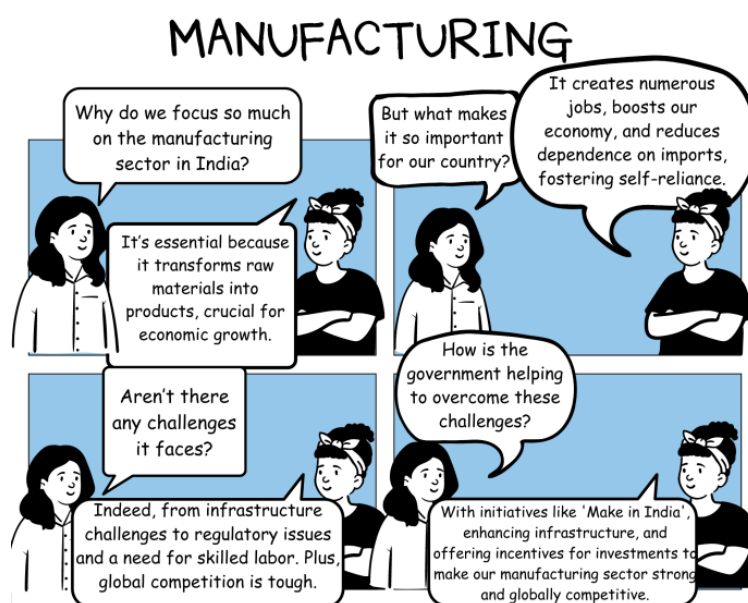
In response to a balance of payments crisis in the early 1990s, India initiated a series of economic reforms in 1991 to liberalize its economy. The manufacturing sector witnessed significant changes during this period. Key reforms included:

1. Reduction of industrial licensing and delicensing of various industries, allowing for increased private sector participation and foreign direct investment (FDI).
2. Introduction of foreign trade reforms to encourage exports and boost competitiveness.
3. Dismantling of import controls and tariff reductions to promote import competition and efficiency.
4. Creation of Special Economic Zones (SEZs) to attract foreign investment and boost manufacturing exports.

## Industrial sector's contribution to India's Economy

According to the World Bank, in 2020, the industrial sector accounted for around 26% of India's GDP. That means that roughly a quarter of the value of all goods and services produced in India comes from the industrial sector.

According to the Ministry of Statistics and Programme Implementation, the industrial sector employed around 28% of India's workforce in 2019.



## High-frequency indicators to track the growth momentum of the industrial sector

High-Frequency Indicator	Definition	Calculation
<b>PMI Manufacturing</b>	A monthly survey-based index that measures the level of confidence of purchasing managers in the manufacturing sector	The index is calculated based on surveys of purchasing managers who report changes in key factors like new orders, production, employment, supplier deliveries, and inventories. The PMI value is derived from a weighted average of these components. A score above 50 indicates expansion, while below 50 indicates contraction.
<b>IIP</b>	A monthly index that tracks the production of different industries in India	IIP is calculated using the Laspeyres formula, which compares the current period's industrial production with a base period. The index represents the percentage change in production volume for a basket of industrial products over time.
<b>Index of Core Industries</b>	A monthly index that tracks the performance of key industries that make up the core of the industrial sector in India	Refinery Products Industry: 28.04% Electricity Industry: 19.85% Steel Industry: 17.92% Coal Industry: 10.33% Crude Oil Industry: 8.98% Natural Gas Industry: 6.88% Cement Industry: 5.37% Fertilizers Industry: 2.63%

<b>Bank Credit to Industry</b>	The loans given by banks to industries for their operations and expansion	
<b>FDI in Manufacturing</b>	The investment made by foreign companies in the manufacturing sector of India	

## Government Policies and Initiatives to Support Manufacturing

1. **Make in India:** Launched in 2014, the Make in India campaign is one of the flagship initiatives to promote manufacturing and transform India into a global manufacturing hub. The campaign aims to attract both domestic and foreign investment in various industries by offering a favorable business environment, easing regulatory norms, and providing incentives for manufacturing activities.
2. **National Manufacturing Policy (NMP):** The NMP provides a comprehensive roadmap for the growth and development of the manufacturing sector. It focuses on enhancing the sector's contribution to GDP, increasing employment opportunities, and promoting sustainable manufacturing practices. The policy emphasizes the need for skill development, technology upgradation, and efficient infrastructure.
3. **Special Economic Zones (SEZs):** SEZs are designated geographical areas that offer various tax incentives, customs benefits, and simplified regulatory procedures to attract foreign direct investment and promote exports. SEZs have played a significant role in boosting manufacturing exports and creating employment opportunities.
4. **Industrial Corridors:** The government has identified and developed industrial corridors, such as the Delhi-Mumbai Industrial Corridor (DMIC) and Chennai-Bengaluru Industrial Corridor (CBIC). These corridors aim to create industrial clusters with state-of-the-art infrastructure, better connectivity, and investor-friendly policies.
5. **Goods and Services Tax (GST):** The introduction of the GST in 2017 brought about significant tax reforms and streamlined the indirect taxation system. The unified tax regime has reduced tax complexities and improved the ease of doing business, benefiting the manufacturing sector.
6. **Intellectual Property Rights (IPR) Policy:** India has formulated a National IPR Policy to promote innovation and protect intellectual property. The policy aims to foster an environment conducive to research, development, and technology transfer in the manufacturing sector.
7. **Technology Upgradation Fund Scheme (TUFS):** TUFS provides financial support to textile and jute industries for the modernization of machinery and technology upgradation. The scheme aims to enhance productivity, quality, and cost-competitiveness in these industries.
8. **Export Promotion Schemes:** Various export promotion schemes, such as the Merchandise Exports from India Scheme (MEIS) and the Service Exports from India Scheme (SEIS), provide incentives to manufacturers for promoting exports and expanding their global footprint.
9. **Investment Facilitation:** The government has set up single-window clearance mechanisms and investment promotion agencies at the central and state levels to facilitate investment in the manufacturing sector. These agencies help investors with necessary approvals and clearances, thus reducing bureaucratic hurdles.
10. **Ease of Doing Business Reforms:** The Indian government has undertaken significant reforms to improve the ease of doing business in the country. These reforms include simplifying business registration processes, reducing compliance burdens, streamlining tax procedures, and enabling

faster dispute resolution. The World Bank's "Doing Business" report has recognized India's efforts, leading to improved rankings in the ease of doing business index.

11. *Production-Linked Incentive (PLI) Schemes*: The government has introduced PLI schemes in specific sectors to encourage domestic manufacturing and enhance India's competitiveness in global markets. Under these schemes, manufacturers receive incentives based on their incremental production and investment.
12. *Atmanirbhar Bharat Abhiyan*: The Atmanirbhar Bharat Abhiyan (Self-Reliant India Campaign) was launched in 2020 to promote self-reliance and reduce dependency on imports. It encourages domestic manufacturing, R&D, and innovation in key sectors to make India self-sufficient and globally competitive.
13. *National Capital Goods Policy*: The National Capital Goods Policy aims to enhance the competitiveness of India's capital goods sector and strengthen the manufacturing ecosystem. It focuses on increasing domestic production, exports, and technology upgradation in the capital goods industry.
14. *Pradhan Mantri Mudra Yojana (PMMY)*: PMMY provides financial assistance to small and micro-enterprises, including those in the manufacturing sector, by offering collateral-free loans. This initiative helps in promoting entrepreneurship and supporting small-scale manufacturing units.
15. *Start-up India*: The Start-up India initiative fosters a conducive ecosystem for startups, including those in the manufacturing sector. It provides various benefits such as tax incentives, self-certification compliance, and access to funding and mentorship to promote entrepreneurship and innovation.
16. *PM Gati Shakti - National Master Plan*: PM Gati Shakti is a transformative infrastructure development initiative launched by the Government of India. It aims to create a unified and integrated multimodal logistics network across the country. The National Master Plan under PM Gati Shakti focuses on enhancing transportation connectivity, including roads, railways, ports, and airports, to facilitate efficient movement of goods and reduce logistics costs for the manufacturing sector.

## **Challenges Faced by the Manufacturing Sector in India**

1. *Infrastructure Deficiency*: Inadequate and outdated infrastructure, including transportation, logistics, and power supply, pose significant challenges for manufacturers. Poor roads, congested ports, and unreliable power supply lead to increased production costs, delays in delivery, and hamper overall efficiency.
2. *Skilled Labor Shortages*: The manufacturing sector in India grapples with a shortage of skilled and trained labor. The disparity between the demand for skilled workers and the availability of suitable talent creates challenges in adopting advanced manufacturing technologies and hampers productivity.
3. *Labor Reforms*: The rigid labor laws in India have been a longstanding challenge for the manufacturing sector. The existing labor laws often hinder flexibility in hiring, firing, and labor deployment, making it difficult for companies to adjust their workforce according to changing market conditions and demand fluctuations. The complex labor regulations also discourage businesses from scaling up their operations and investing in labor-intensive industries.
4. *Complex Regulatory Environment*: Manufacturers face complex and time-consuming regulatory procedures, including licensing, permits, and compliance requirements. This bureaucratic burden increases administrative costs and delays business operations.



5. *Access to Finance*: Small and Medium-sized Enterprises (SMEs) in the manufacturing sector often encounter challenges in accessing affordable credit and working capital. High interest rates and stringent lending norms limit their growth and expansion opportunities.
6. *Low R&D and Innovation*: The level of research and development (R&D) expenditure in the manufacturing sector remains relatively low compared to global standards. Lack of innovation and technology adoption hinders the industry's ability to produce high-value products and compete in international markets.
7. *Global Competition*: Indian manufacturers face intense competition from other countries, particularly from low-cost manufacturing hubs like China. Price competitiveness becomes challenging due to economies of scale and lower production costs in competitor countries.
8. *Inefficient Supply Chain Management*: Inefficient supply chain management results in inventory management challenges, increased lead times, and higher costs. Manufacturers often struggle to optimize supply chain processes, affecting their ability to meet market demands efficiently.
9. *Import Dependency*: India's manufacturing sector still depends on imports for certain critical raw materials, components, and machinery. This reliance on foreign supplies makes the industry vulnerable to fluctuations in global markets and exchange rate volatility. Eg. Electronics Industry
10. *Environmental Regulations*: Stricter environmental regulations and compliance requirements impact manufacturing processes and necessitate additional investments in environment-friendly technologies and waste management systems.
11. *Lack of Industry-Academia Collaboration*: Limited collaboration between industry and academia hampers innovation and technology transfer in the manufacturing sector. Bridging this gap is essential to foster R&D, skill development, and technology upgradation.

## Opportunities for the Manufacturing Sector

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### Rising Domestic Demand and Demographic Dividend

- India's large and growing population presents a significant domestic market for manufactured goods. The rising middle-class population and increasing disposable income drive demand for consumer durables, electronics, automobiles, and other products.
- The country's young and aspiring workforce offers a demographic dividend, providing a skilled labor pool for the manufacturing sector and supporting overall economic growth.

### Leveraging Technology for Industry 4.0

- Industry 4.0, characterized by automation, data exchange, and IoT integration, offers immense opportunities for the manufacturing sector. Adoption of advanced technologies enhances productivity, quality, and efficiency in manufacturing processes.
- India can become a leader in technology-driven manufacturing and leverage its IT expertise to drive innovation and digital transformation in industries.

### Focus on Sustainable and Green Manufacturing

- The increasing global emphasis on sustainability and environmental responsibility presents an opportunity for Indian manufacturers to adopt eco-friendly practices and green technologies.
- By producing environmentally conscious products and adopting sustainable manufacturing processes, Indian companies can gain a competitive edge and appeal to eco-conscious consumers globally.

## Export Potential and Market Diversification

- India's manufacturing sector has significant export potential, particularly in sectors like pharmaceuticals, textiles, engineering goods, and automotive components.
- Diversifying export markets reduces reliance on specific regions and enhances the sector's resilience to global economic fluctuations.

## Government Initiatives and Incentives

- The Government of India's initiatives like Make in India, Production-Linked Incentive (PLI) schemes, and Atmanirbhar Bharat Campaign provide incentives and support to promote domestic manufacturing and attract foreign investments.
- These initiatives create an enabling environment for manufacturers, facilitating technology adoption, R&D, and innovation.

## Infrastructure Development

- Investment in infrastructure development, such as transportation networks, logistics hubs, and industrial corridors, can improve supply chain efficiency and reduce manufacturing costs.
- Access to modern infrastructure enhances connectivity and accessibility to markets, attracting more investment in the manufacturing sector.

## Shift in Global Supply Chains

- The COVID-19 pandemic and geopolitical tensions have led to a reevaluation of global supply chains. Many companies are exploring alternative manufacturing destinations like India to reduce dependency on a single country or region.
- This presents an opportunity for India to attract investments and enhance its role in global supply chains.

By capitalizing on these opportunities, the Indian manufacturing sector can position itself as a major player in the global market, drive economic growth, create jobs, and contribute significantly to India's journey towards becoming a globally competitive economy.

## Key sub-sectors in India's Industrial Sector

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### Micro, Small and Medium Enterprises (MSMEs)

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The Micro, Small, and Medium Enterprises (MSMEs) sector includes a wide range of businesses, such as small manufacturers, service providers, and artisans. MSMEs play a crucial role in the Indian economy by contributing to employment generation and economic growth.

### Challenges

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1. Limited access to finance and credit
2. Difficulty in adopting new technology and innovation
3. Lack of skilled labor and training programs
4. Regulatory compliance and bureaucratic hurdles

## Government Initiatives

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1. The government has launched several initiatives to support MSMEs, such as the Prime Minister's Employment Generation Programme (PMEGP) and the Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE).
2. The government has also introduced measures to promote innovation and entrepreneurship, such as the Startup India initiative and the Atmanirbhar Bharat Abhiyan.
3. The government has simplified regulatory compliance for MSMEs by introducing a single-window system for approvals and registrations.

## Examples

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- Chumbak, a Bangalore-based company, is a successful MSME that designs and manufactures quirky lifestyle products such as bags, wallets, and home decor items. Chumbak has expanded rapidly in recent years, with over 70 stores across India and a strong online presence.
- Fabindia, another well-known MSME, is a retail chain that specializes in handcrafted products such as clothing, accessories, and home furnishings. Fabindia works closely with artisans and weavers in rural areas, providing them with a platform to showcase their products and earn a livelihood.

## New MSME classification

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The Government of India revised the classification criteria for Micro, Small, and Medium Enterprises (MSMEs) under the Micro, Small, and Medium Enterprises Development (MSMED) Act, 2006. This revision, effective from July 1, 2020, is based on two parameters: investment in plant and machinery or equipment, and annual turnover. The revised criteria aim to broaden the scope of MSMEs, allowing more businesses to benefit from government schemes and support.

The new classification eliminates the previous distinction between manufacturing and service sectors, providing a unified definition for both. This means the investment and turnover limits apply equally to manufacturing and service enterprises.

Type of Enterprise	Investment in Plant and Machinery/Equipment	Annual Turnover
<b>Micro</b>	Up to ₹1 crore	Up to ₹5 crores
<b>Small</b>	More than ₹1 crore and up to ₹10 crores	More than ₹5 crores and up to ₹50 crores
<b>Medium</b>	More than ₹10 crores and up to ₹50 crores	More than ₹50 crores and up to ₹250 crores

## Electronics Industry

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The electronics industry in India is involved in the manufacturing and production of electronic products, such as smartphones, laptops, televisions, and more. It is a rapidly growing industry in India, with many global and domestic companies investing in the country.

## Challenges

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1. Lack of a strong supply chain ecosystem
2. Limited availability of skilled labor and technical expertise

3. High import dependence for raw materials and components
4. Intense competition from other Asian countries such as China and Taiwan

### Government Initiatives

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1. The government has launched several initiatives to promote electronics manufacturing in India, such as the Make in India campaign and the National Policy on Electronics.
2. The government has also established special economic zones (SEZs) and industrial parks to attract foreign investment and promote manufacturing.
3. The government has implemented measures to improve the availability of skilled labor, such as the Skill India initiative and the Pradhan Mantri Kaushal Vikas Yojana.

### Examples

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- Foxconn, a Taiwanese multinational electronics contract manufacturer, has set up a manufacturing facility in India to produce smartphones for companies such as Apple and Xiaomi.
- Samsung, the South Korean electronics giant, has a large manufacturing presence in India, with factories producing smartphones, televisions, and home appliances.

### Coal Industry

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The coal industry plays a crucial role in the country's energy mix. India is the third-largest producer of coal in the world, and the coal industry provides employment to millions of people across the country.

### Challenges

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1. Limited availability of high-quality coal reserves in certain regions
2. Environmental concerns related to coal mining and usage, such as air pollution and greenhouse gas emissions
3. Increasing competition from renewable energy sources like solar and wind power
4. Technological challenges in the exploration and extraction of coal

### Government Initiatives

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1. The government has launched several initiatives to improve the efficiency and sustainability of the coal industry, such as the Coal Mitra portal, which facilitates the transfer of coal reserves from one company to another, and the Ujjwal Discom Assurance Yojana, which aims to ensure the financial viability of power distribution companies.
2. The government has also introduced measures to promote the use of clean coal technologies and reduce emissions, such as the National Clean Energy Fund and the Clean Energy Cess.
3. The government is also investing in research and development to improve the exploration and extraction of coal, such as the development of new mining technologies and the use of artificial intelligence and big data analytics.

### Examples

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- Coal India Limited is the largest coal mining company in India and operates several mines across the country. It produces around 83% of the country's coal output and employs over 300,000 people.

## Steel Industry

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The steel industry plays a critical role in the growth and development of the Indian economy. It includes the production of iron and steel products, which are used in various industries, such as construction, automotive, and infrastructure.

### Challenges

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1. High dependence on imported raw materials, such as coking coal and iron ore
2. Intense competition from low-cost steel producers in other countries
3. Environmental concerns related to emissions and waste disposal
4. Fluctuations in demand and prices due to global economic conditions

### Government Initiatives

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1. The government has launched several initiatives to support the growth and development of the steel industry, such as the National Steel Policy and the Make in India campaign.
2. The government has also implemented measures to reduce dependence on imported raw materials and encourage domestic production, such as the auction of mineral resources and the introduction of the Steel Scrap Recycling Policy.
3. The government has also provided financial and technical assistance to steel companies for modernization and capacity expansion, such as the Steel Development Fund and the Technology Upgradation Fund Scheme.

### Examples

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- Tata Steel, one of the leading steel producers in India, has several plants and facilities across the country. Its flagship plant in Jamshedpur, Jharkhand is one of the largest and most advanced steel plants in the world.
- Steel Authority of India Limited (SAIL), another major player in the Indian steel industry, has several integrated steel plants and is involved in the production of a wide range of steel products, including long and flat products.

## Textile Industry

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The textile industry includes the production of various textiles, such as cotton, silk, wool, and synthetic fibers, as well as the manufacturing of apparel, home textiles, and technical textiles.

### Challenges

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1. Competition from other countries like Bangladesh with lower labor costs
2. High cost of raw materials, such as cotton and silk
3. Lack of modernization and technological advancements in certain regions
4. Environmental concerns related to water usage and pollution

### Government Initiatives

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1. The government has launched several initiatives to promote the textile industry, such as the Technology Upgradation Fund Scheme (TUFS) and the Integrated Skill Development Scheme (ISDS).

2. The Make in India campaign also focuses on promoting the textile industry by attracting foreign investment and facilitating ease of doing business.
3. The government has also implemented measures to address environmental concerns, such as the Zero Liquid Discharge (ZLD) policy for textile dyeing and printing units.

### Examples

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- The city of Surat in Gujarat is known as the "Textile City of India" and is one of the largest centers for textile production and manufacturing in the country.
- The traditional textile art of handloom weaving is still practiced in certain regions of India, such as Varanasi and Kanchipuram. These handloom textiles are renowned for their intricate designs and high-quality craftsmanship.

### Pharmaceuticals Industry

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The pharmaceuticals industry is involved in the production and distribution of drugs, medicines, and other healthcare products. India is known as the "Pharmacy of the World" due to its large and growing pharmaceuticals industry.

### Challenges

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1. Increasing competition from other countries
2. High costs of research and development for new drugs
3. Complex regulatory environment and intellectual property issues
4. Dependence on imports of raw materials and active pharmaceutical ingredients (APIs)

### Government Initiatives

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1. The government has launched several initiatives to promote the growth and development of the pharmaceuticals industry, such as the Pharmaceutical Promotion Development Scheme (PPDS) and the Make in India campaign.
2. The government has also established the National Pharmaceutical Pricing Authority (NPPA) to regulate drug prices and ensure affordable healthcare for all.
3. The government has also taken steps to boost domestic production of APIs and reduce dependence on imports, such as the Production Linked Incentive (PLI) scheme for the pharmaceuticals industry.

### Examples

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- The Serum Institute of India, based in Pune, is the world's largest vaccine manufacturer by volume. It produces vaccines for a wide range of diseases, including COVID-19, and exports them to countries around the world.
- The company Cipla, based in Mumbai, is one of the leading pharmaceutical companies in India. It produces a wide range of drugs and medicines, including treatments for cancer, HIV/AIDS, and respiratory illnesses.

### Automobile Industry

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The automobile industry includes the manufacturing and sale of automobiles such as cars, trucks, buses, motorcycles, and more. It is a significant contributor to India's economy, providing employment to millions of people and generating significant revenue.

## Challenges

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1. High competition among domestic and international players
2. Fluctuations in demand due to economic factors and changes in consumer preferences
3. Rising raw material costs and inflation
4. Environmental concerns and pressure to adopt cleaner technologies

## Government Initiatives

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1. The government has implemented several initiatives to support the automobile industry, such as the Automotive Mission Plan and the National Electric Mobility Mission Plan.
2. The government has also announced incentives and tax breaks for manufacturers who invest in clean energy technologies and electric vehicles.
3. The introduction of the Goods and Services Tax (GST) has streamlined the tax system and reduced the overall tax burden on the industry.

## Examples

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- Tata Motors is one of the leading automobile manufacturers in India, producing a wide range of vehicles such as cars, trucks, and buses. Its Nano car, marketed as the world's cheapest car, was launched in 2008 and aimed at providing affordable transportation to the masses.
- Maruti Suzuki is another prominent automobile manufacturer in India, known for its popular compact cars such as the Swift and the Alto. It has a strong presence in the Indian market and has expanded its operations to other countries in the region.

## Telecommunications Industry

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The telecommunications industry includes businesses involved in the production and distribution of telecommunications equipment and services, such as mobile phones, internet services, and cable TV.

## Challenges

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1. High competition among telecom service providers
2. The need for constant innovation to keep up with rapidly evolving technology
3. Difficulty in providing reliable and affordable services in rural and remote areas
4. Regulatory challenges, such as spectrum allocation and licensing issues

## Government Initiatives

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1. The government has launched several initiatives to promote the growth and development of the telecom industry, such as the Digital India campaign and the National Optical Fibre Network project.
2. The Telecom Regulatory Authority of India (TRAI) has implemented measures to promote fair competition and ensure quality services for consumers, such as the Telecom Consumer Protection Regulations.
3. The government has also taken steps to address the issue of connectivity in rural areas, such as the BharatNet project, which aims to provide broadband connectivity to all gram panchayats (village councils) in the country.

## Examples

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- Reliance Jio, a subsidiary of Reliance Industries, is a major player in the Indian telecom market. It offers affordable 4G data plans and has disrupted the industry with its aggressive pricing strategies.
- Bharti Airtel, another leading telecom service provider in India, has a wide range of services, including mobile, broadband, and digital TV. It has a strong presence in both urban and rural areas of the country.



## Additional Terms and Concepts

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### *Blue Collar Workers*

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Blue collar workers are employees who perform manual labor or work in skilled trades. These jobs often involve physical work and are typically found in industries like manufacturing, construction, and maintenance.

Example: A mechanic at a car repair shop in India is a blue collar worker.

### *Greenfield Investment*

---

Greenfield investment refers to the investment in new facilities or infrastructure from scratch. This type of investment involves building new production plants, offices, or other facilities in a new location.

Example: A multinational company decides to expand its operations by building a new manufacturing plant in India. This involves purchasing land, constructing the factory, and installing new machinery. This type of investment, starting from the ground up, is known as a greenfield investment.

### *Brownfield Investment*

---

Brownfield investment refers to the investment in existing facilities or infrastructure. This type of investment involves upgrading, renovating, or expanding an existing facility rather than building new ones.

Example: A foreign company acquires an old factory in Chennai and renovates it to produce its products. By upgrading the existing facility instead of building a new one, the company engages in a brownfield investment.

### *Industry 4.0*

---

Industry 4.0, also known as the Fourth Industrial Revolution, refers to the integration of advanced technologies like artificial intelligence (AI), the Internet of Things (IoT), robotics, and big data into manufacturing and industrial processes. It aims to create smart factories with increased automation, improved efficiency, and enhanced connectivity.

### *Circular Economy*

---

The circular economy is an economic system aimed at minimizing waste and making the most of resources. It involves reusing, repairing, refurbishing, and recycling existing materials and products to extend their life cycle and reduce environmental impact.

Example: A company in India manufactures smartphones designed to be easily disassembled. When a customer returns an old smartphone, the company refurbishes it or recycles its components to make new devices. This practice reduces waste and conserves resources, aligning with the principles of the circular economy.

### *SEZs (Special Economic Zones)*

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Special Economic Zones (SEZs) are designated areas within a country where businesses can operate with favorable economic policies, such as tax incentives, simplified customs procedures, and less

stringent regulations. These zones are created to attract foreign investment, boost exports, and generate employment.

Example: In India, the Kandla SEZ in Gujarat is one of the oldest and most successful SEZs. Companies operating in this zone enjoy benefits like tax holidays, duty-free import and export of goods, and simplified procedures. This attracts foreign companies to set up manufacturing units, boosting local employment and exports.

### *Upcycling*

---

Upcycling is the process of transforming waste materials or unwanted products into new, higher-quality items. Unlike recycling, which breaks down materials to create something of lesser quality, upcycling adds value to the original material.

Example: A designer in Mumbai collects discarded denim jeans and repurposes them into stylish bags and accessories. Instead of the jeans ending up in a landfill, they are transformed into new products that are more valuable than the original items, reducing waste and promoting sustainability.

### *Global Value Chains (GVCs)*

---

Global Value Chains (GVCs) refer to the worldwide network of production and distribution processes involved in creating a finished product. Different stages of production are located in different countries, each adding value to the final product before it reaches the consumer.

Example:

Consider a smartphone made by an American company:

- The design and software development take place in the United States.
- The microchips are manufactured in South Korea.
- The screen is produced in Japan.
- Assembly occurs in China.
- The final product is then shipped and sold globally.

Each country specializes in different stages of production, adding value to the smartphone through a global value chain. This allows companies to take advantage of cost efficiencies and specialized skills across different regions.

### *Greenwashing*

---

Greenwashing occurs when a company falsely claims to be environmentally friendly to appeal to consumers who prefer to support sustainable businesses. It's a form of deceptive marketing where the actual practices of the company are not as green as they are presented.

Example: A company might advertise that their products are made from recycled materials or are eco-friendly, but in reality, they only use a small percentage of recycled materials and engage in environmentally harmful practices. This misleads consumers into thinking they are making a green choice when they are not.

## Previous Years Prelims Questions

1.	Recently, India's first 'National Investment and Manufacturing Zone' was proposed to be set up in  (a) Andhra Pradesh (b) Gujarat (c) Maharashtra (d) Uttar Pradesh	2016
2.	On which of the following can you find the Bureau of Energy Efficiency Star Label?  (1) Ceiling fans (2) Electric geysers (3) Tubular fluorescent lamps  Select the correct answer using the code given below.  (a) 1 and 2 only (b) 3 only (c) 2 and 3 only (d) 1, 2 and 3	2016
3.	In the 'Index of Eight Core Industries', which one of the following is given the highest weight?  (a) Coal production (b) Electricity generation (c) Fertilizer production (d) Steel production	2015
4.	Consider the following heavy industries  1. Fertilizer plants.  2. Oil refineries  3. Steel plants  Green hydrogen is expected to play a significant role in decarbonizing how many of the above industries?  (a) Only one (b) Only two (c) All three (d) None	2023
5.	Consider the with reference to the India:	2023

	<p>1. According to the 'Micro, Small and Medium Enterprises Development (MSMED) Act, 2006', the 'medium enterprises' are those with investments in plant and machinery between Rs 15 crore and Rs 25 crore.</p> <p>2. All bank loans to the Micro, Small and Medium Enterprises qualify under the priority sector.</p> <p>Which of the statements given above is/are correct?</p> <p>a) 1 only b) 2 only c) Both 1 and 2 d) Neither 1 nor 2</p>	
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### Previous Years Mains Questions

1.	Account for the failure of the manufacturing sector in achieving the goal of labour-intensive exports rather than capital-intensive exports. Suggest measures for more labour-intensive rather than capital-intensive exports.	2017
2.	"Industrial growth rate has lagged behind in the overall growth of Gross-Domestic-Product(GDP) in the post-reform period" Give reasons. How far the recent changes in Industrial Policy are capable of increasing the industrial growth rate?	2017
3.	"Success of 'Make in India' programme depends on the success of 'Skill India' programme and radical labour reforms." Discuss with logical arguments.	2015
4.	There is a clear acknowledgement that Special Economic Zones (SEZs) are a tool of industrial development, manufacturing and exports. Recognizing this potential, the whole instrumentality of SEZs requires augmentation. Discuss the issues plaguing the success of SEZs with respect to taxation, governing laws and administration.	2015
5.	Faster economic growth requires increased share of the manufacturing sector in GDP, particularly of MSMEs. Comment on the present policies of the Government in this regard.	2023

#### Answers

1.	A	2.	D
3.	B	4.	C
5.	B		

# 15

CHAPTER

INFRASTRUCTURE



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# Chapter 15

## Infrastructure

The Indian economy has grown to become the fifth largest globally, and its infrastructure has played a critical role in accelerating this progress. Quality infrastructure is essential for sustaining economic growth and increasing productivity and efficiency. Additionally, infrastructure development has a significant impact on poverty reduction and supports rural and agricultural development.

### Physical Infrastructure

#### Road

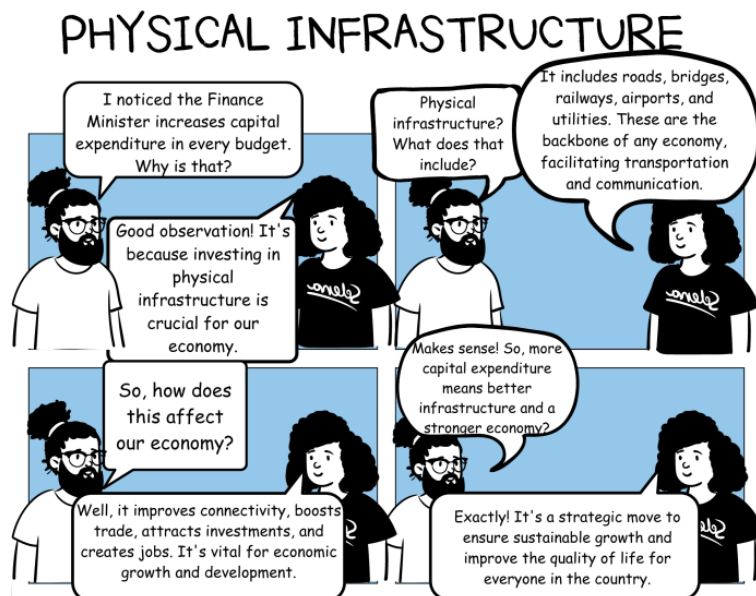
The road infrastructure includes the construction, maintenance, and operation of highways, expressways, and other major roads throughout the country. India has the second-largest road network in the world, spanning over 5.5 million kilometers.

#### Challenges

1. Lack of adequate funding: Financing for road projects is a major challenge, as the government often struggles to secure the necessary funds for construction and maintenance.
2. Poor road conditions: Many of India's roads are in poor condition, leading to safety concerns and difficulties for vehicles to travel on them.
3. Congestion: Traffic congestion is a major issue on many of India's roads, leading to increased travel time and reduced efficiency for transport of goods and people.

#### Government reforms/initiatives

1. Bharatmala Project: This is a government initiative to improve the quality of national highways in India, including the construction of new highways and the improvement of existing ones.
2. Pradhan Mantri Gram Sadak Yojana (PMGSY): This scheme is aimed at improving rural road connectivity in India, by providing funds for the construction and maintenance of rural roads.
3. Toll-Operate-Transfer (TOT) model: The government has introduced this model to monetize the road assets built using public funds. Under this model, the private sector can take over the



operation and maintenance of public highways for a period of time, after which they are transferred back to the government.

## Examples

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Some examples of major road infrastructure projects in India include:

- The Golden Quadrilateral: This is a network of highways connecting the major cities of Delhi, Mumbai, Chennai, and Kolkata, covering a total distance of 5,846 kilometers.
- The Yamuna Expressway: This is a 165-kilometer-long six-lane expressway that connects Noida to Agra, reducing travel time between the two cities from over four hours to around two hours.
- The Mumbai-Pune Expressway: This is a six-lane expressway connecting Mumbai and Pune, reducing travel time between the two cities from around six hours to around three hours.

## Railways

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The Indian Railways is one of the largest railway networks in the world, covering around 68,000 kilometers of track and transporting more than 23 million passengers daily. It is a crucial part of India's transportation system, connecting people and goods across the country.

## Challenges

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1. Capacity: One of the biggest challenges for the Indian Railways is capacity, as it struggles to keep up with the increasing demand for transportation. Many trains run over capacity, leading to discomfort for passengers.
2. Safety: Another challenge is safety, as the rail network is often prone to accidents, especially during the monsoon season when tracks get flooded, and landslides occur. Additionally, the outdated infrastructure and equipment pose safety risks to passengers.
3. Modernization: The Indian Railways has been slow to modernize, with many of its systems and processes remaining outdated. This makes it difficult to provide quality service to passengers, and also affects the ability to increase capacity.

## Government reforms/initiatives

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1. Modernization: The government has launched several initiatives to modernize the Indian Railways, including the introduction of high-speed trains, such as the Vande Bharat Express, and the implementation of new technologies like the Train Collision Avoidance System (TCAS).
2. Safety: To address the safety concerns, the government has initiated several measures, including the elimination of unmanned level crossings, the installation of CCTV cameras in trains and stations, and the introduction of the Emergency Medical Services (EMS) system in trains.
3. Investment: The government has also increased its investment in the Indian Railways, with a focus on upgrading infrastructure, improving passenger amenities, and increasing capacity. For example, the Dedicated Freight Corridor (DFC) project, which aims to increase the speed and volume of freight transportation.

## Civil Aviation

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The civil aviation sector in India includes airports, airlines, and other related services that are responsible for transporting passengers and goods within the country and internationally.

## Challenges

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1. Infrastructure: India faces challenges in terms of infrastructure development, particularly with regards to airport capacity and maintenance.
2. Competition: The aviation industry in India is highly competitive, with both domestic and international airlines vying for market share.
3. Rising fuel costs: As the cost of aviation fuel continues to rise, airlines are facing increasing pressure to keep ticket prices low while still remaining profitable.
4. Regulatory challenges: The aviation industry is heavily regulated, and airlines must comply with a range of safety and security standards.

## Government reforms/initiatives

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1. Regional Connectivity Scheme: The Indian government has launched a scheme to improve regional connectivity by subsidizing airlines to operate on underserved routes.
2. UDAN: UDAN, or the Ude Desh Ka Aam Nagrik scheme, is aimed at making air travel affordable and accessible for all Indians. The scheme includes measures such as capping airfares on regional routes and providing financial incentives for airlines to operate on these routes.
3. Privatization of airports: The Indian government has been privatizing airports across the country, with the aim of improving efficiency and service quality.
4. Open skies policy: The Indian government has implemented an open skies policy, which allows foreign airlines to operate more freely in the Indian market. This has led to increased competition and lower ticket prices for consumers.

## Ports

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Ports play a vital role in the country's economic growth. These are facilities where ships can dock to load and unload cargo. India has a long coastline of over 7,500 kilometers, and the country's ports handle more than 90% of its international trade by volume and 70% by value.

## Challenges

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1. Insufficient capacity and outdated technology are some of the significant challenges faced by Indian ports. As a result, they often face congestion, leading to delays in cargo movement.
2. The lack of adequate hinterland connectivity and inadequate last-mile connectivity to ports creates a bottleneck in the overall logistics chain.
3. High turnaround times and the lack of modern facilities, such as container terminals, hinder the efficient handling of cargo at ports.
4. Issues related to land acquisition, environmental clearances, and security concerns pose challenges to the development of new ports and port-led projects.

## Government reforms/initiatives

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1. The Sagarmala Program was launched by the government to develop India's ports and maritime sector by improving port infrastructure, connectivity, and logistics to reduce logistics cost and time.

2. The government has also allowed 100% FDI in the port sector to attract investments and develop new ports.
3. The Ministry of Shipping has undertaken several initiatives to promote the use of digital technology in the port sector to enhance efficiency and transparency.
4. The government has also taken steps to improve the ease of doing business in the port sector by reducing the number of documents required for import and export, simplifying customs procedures, and reducing cargo dwell time at ports.

For example, the Jawaharlal Nehru Port Trust (JNPT) in Mumbai is one of the largest container ports in India. It handles more than half of the country's container traffic. The JNPT has undertaken several initiatives to enhance its capacity and efficiency, such as the construction of a new container terminal and the implementation of a Direct Port Delivery system to reduce cargo dwell time.

## Inland Water Transport

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Inland water transport (IWT) refers to the movement of goods and people via rivers, canals, and other inland waterways. In India, Inland Water Transport plays a crucial role in connecting various regions and promoting trade and commerce.

- India has an extensive network of inland waterways, including five major rivers: the Ganga, Brahmaputra, Godavari, Krishna, and Mahanadi.
- The total length of navigable inland waterways in India is around 20,000 km, which includes rivers, canals, backwaters, and creeks.
- Inland water transport is primarily used for transporting bulk goods such as coal, iron ore, food grains, fertilizers, and petroleum products.

## Challenges

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1. Inadequate infrastructure and lack of modernization have been major challenges for the IWT sector in India.
2. The low depth of many waterways and inadequate dredging make it difficult for larger vessels to operate.
3. Limited access to funding and lack of private sector participation have also hampered the growth of the sector.

## Government reforms/initiatives

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1. The Jal Marg Vikas Project (JMVP) is a major initiative aimed at developing the National Waterway-1 (NW-1) on the Ganga River, which spans 1,390 km from Haldia in West Bengal to Varanasi in Uttar Pradesh. The project includes the construction of new multi-modal terminals, modernization of existing infrastructure, and dredging of the river to make it navigable for larger vessels.
2. The government has also introduced several policy measures to promote private sector participation in the IWT sector, including the granting of infrastructure status to the sector, allowing for 100% FDI under the automatic route, and providing tax incentives to private players.
3. The National Waterway Act, 2016, which declared 111 waterways as national waterways, is another major initiative aimed at promoting IWT in India.

## Electricity

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Electricity plays a vital role in powering the nation's homes, industries, and economy. Electricity is generated through various sources such as coal, natural gas, hydro, wind, and solar power plants. The electricity generated is then transmitted and distributed through a network of power lines, transformers, and substations to reach consumers in homes and businesses.

### Challenges

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1. Inadequate power supply in many parts of the country, leading to frequent power cuts and load shedding.
2. High transmission and distribution losses due to outdated infrastructure and theft.
3. Uneven distribution of power supply, with rural areas often facing power shortages and poor quality of electricity.
4. Dependence on non-renewable sources of energy such as coal, leading to environmental concerns and carbon emissions.
5. Lack of investment in renewable energy sources such as solar and wind power.

### Government reforms/initiatives

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1. The government has launched the "Power for All" initiative with the aim of providing electricity access to all households in the country by 2022.
2. Various schemes have been launched to promote renewable energy such as the National Solar Mission, which aims to achieve 100 GW of solar power capacity by 2022.
3. The government has also introduced measures to improve the efficiency of the power sector such as Ujwal DISCOM Assurance Yojana (UDAY), which aims to improve the financial health of distribution companies (DISCOMs) by reducing their losses and improving operational efficiencies.
4. Smart grid technologies are being implemented to improve the efficiency and reliability of the power system.
5. Initiatives are being taken to promote energy conservation and demand-side management through schemes like the Energy Conservation Building Code (ECBC) and the Perform, Achieve and Trade (PAT) scheme.

## Digital Infrastructure

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### Telecommunications

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Telecommunications enables communication over long distances through the use of various technologies like phones, internet, and other wireless communication methods. This industry is crucial to modern society, as it allows people to stay connected and access information from anywhere in the world. In India, the telecommunications sector has seen rapid growth in recent years, with the government taking various initiatives to improve connectivity across the country.

### Challenges

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1. High competition: There are several players in the market, leading to intense competition among telecom operators.

2. Infrastructure: Despite the growth in recent years, there is still a need for more infrastructure development to reach remote areas of the country.
3. Digital divide: The digital divide in India is a major challenge, as many people in rural areas still do not have access to basic telecommunications services.

### Government reforms/initiatives

1. National Optical Fiber Network (NOFN): This initiative aims to provide high-speed broadband connectivity to all gram panchayats (village councils) in India.
2. BharatNet: This project aims to connect all villages in India with high-speed broadband.
3. Spectrum auction: The government has held spectrum auctions to allocate radio frequencies to telecom operators, thereby enabling them to provide better services to customers.
4. Digital India: This initiative aims to transform India into a digitally empowered society and knowledge economy by providing universal access to digital services.

### Examples

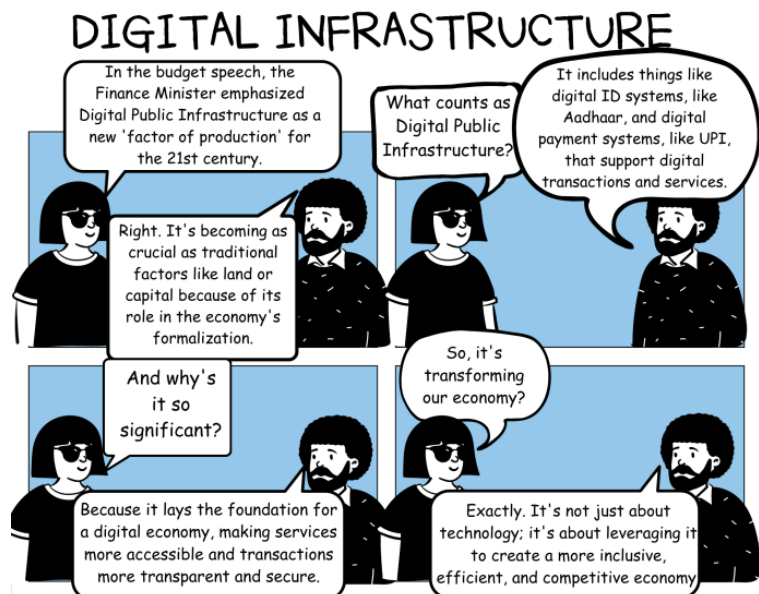
Some of the major players in the Indian telecommunications market include Reliance Jio, Bharti Airtel, Vodafone Idea, and BSNL. These companies offer a range of services, including mobile, broadband, and enterprise solutions. With the help of government initiatives, the sector has seen rapid growth in recent years, with more and more people gaining access to high-speed internet and other communication services. For example, Reliance Jio disrupted the market by offering free calls and data, leading to a price war among telecom operators and making data more affordable for the average Indian.

### Digital Public Infrastructure

Digital public infrastructure refers to a range of digital services, platforms, and tools that are used to provide citizens with access to various government services and information. These include platforms for online payments, e-governance portals, digital identity systems, and more.

### Challenges

1. Lack of access to technology and infrastructure in some parts of the country, particularly in rural areas.
2. Cybersecurity concerns, including the risk of data breaches and identity theft.
3. Limited awareness and understanding of digital services among some citizens, particularly those who are older or less tech-savvy.



## Government Reforms/Initiatives

1. The government's Digital India initiative aims to transform India into a digitally empowered society and knowledge economy. This includes initiatives to improve digital infrastructure and connectivity, promote digital literacy, and develop e-governance systems.
2. The Aadhaar digital identity system, launched in 2009, provides citizens with a unique 12-digit identification number that can be used to access a range of government services and benefits.
3. The Unified Payments Interface (UPI) system, launched in 2016, allows citizens to make instant and secure digital payments from their bank accounts using their mobile phones.
4. The National Knowledge Network (NKN) is a high-speed network that connects academic and research institutions across India, providing them with access to digital resources and tools.

## Key Government Initiatives

### National Infrastructure Pipeline (NIP)

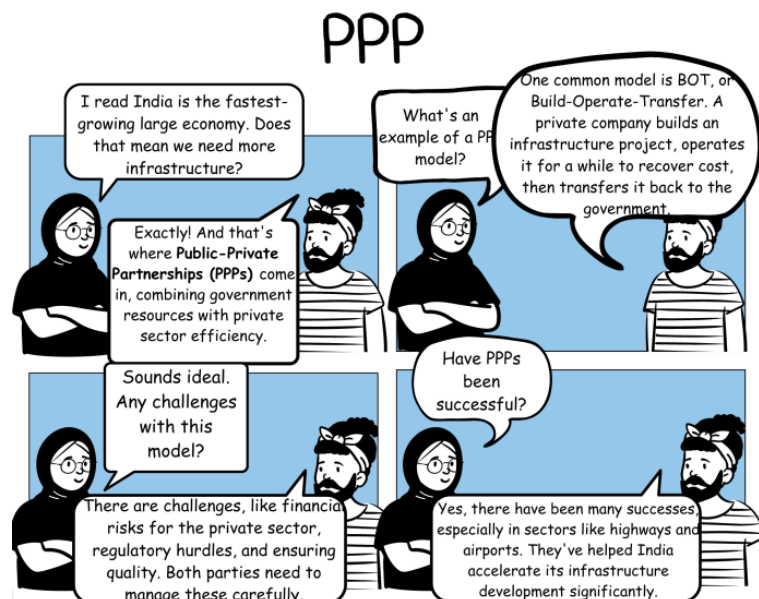
The National Infrastructure Pipeline (NIP) is a significant initiative by the Indian government aimed at improving the country's overall quality of life and driving economic growth. It focuses on providing world-class infrastructure across the nation to support India's aspiration of becoming a \$5 trillion economy by the financial year 2025. The NIP encompasses both economic and social infrastructure projects, and its main objectives are to attract domestic and foreign direct investments and enhance project preparations.

### Public-Private Partnership (PPP)

Public-Private Partnership (PPP) is a collaborative arrangement between the government and private sector entities to develop and operate infrastructure projects. In PPPs, the private sector brings in investments, technology, and expertise, while the government provides regulatory support and access to public resources. PPPs are used to address funding constraints, accelerate project implementation, and enhance efficiency in delivering public services.

### Benefits of PPP

1. **Efficient Project Execution:** PPPs leverage the private sector's expertise in project management and execution, leading to faster and more efficient implementation of infrastructure projects.
2. **Risk Sharing:** Risks related to design, construction, and operations are shared between the government and private partners, reducing the burden on public finances.





3. *Innovation and Technology*: Private sector involvement often brings innovative technologies and practices, enhancing the quality and sustainability of infrastructure.
4. *Access to Capital*: PPPs attract private investments, bridging the funding gap and reducing the burden on government budgets.
5. *Quality Service Delivery*: PPPs promote better service delivery as private entities are incentivized to meet performance targets and ensure customer satisfaction.

## Types of PPP

PPP Model	Explanation
<b>BOT (Build-Operate-Transfer)</b>	Private entity designs, builds, and operates the infrastructure for a specific period, after which it transfers ownership to the government. The private partner generates revenue during the concession period. This model is suitable for revenue-generating projects like toll roads and bridges.
<b>BOOT (Build-Own-Operate-Transfer)</b>	Similar to BOT, but the private entity owns the infrastructure during the concession period, and the transfer to the government happens later. BOOT is applicable for projects with a long-term revenue stream, such as power plants and water supply systems.
<b>BOLT (Build-Own-Lease-Transfer)</b>	The private entity owns and operates the infrastructure, leasing it to the government for a specified period. Ownership transfers to the government at the end of the lease term. This model is used for projects with a shorter concession period and assured revenue streams.
<b>DBFOT (Design-Build-Finance-Operate-Transfer)</b>	The private partner is responsible for designing, building, financing, and operating the infrastructure for a specific period before transferring it to the government. DBFOT is suitable for projects where the private partner is involved in the complete lifecycle of the project.
<b>BOT Annuity</b>	In this model, the private partner builds and operates the infrastructure and receives annuity payments from the government over the concession period. The ownership transfers to the government at the end of the concession period. BOT Annuity is commonly used in road and highway projects.
<b>Lease Contract Model</b>	The private entity constructs the infrastructure and leases it to the government for an agreed period. The government pays lease rentals to the private partner for the use of the infrastructure. Ownership remains with the private partner during the lease period.
<b>EPC (Engineering, Procurement, and Construction) Model</b>	The private entity is responsible for the engineering, procurement, and construction of the infrastructure. After completion, ownership is transferred to the government, and the private partner is not involved in operation and maintenance. EPC is common for one-time capital projects.
<b>HAM (Hybrid Annuity Model)</b>	HAM is a variation of BOT Annuity, where the government and private partner share the project cost in a predetermined ratio. The government pays the private partner in the form of annuities over the concession period. This model is used to reduce the financial burden on the private partner.



## Factors to be considered while designing a PPP

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1. *Project Viability and Bankability*: The project's feasibility and financial viability are crucial considerations. A thorough assessment of revenue streams, cost projections, and potential risks is necessary to attract private investment.
2. *Risk Allocation*: Proper allocation of risks between the public and private partners is vital for the success of a PPP. Identifying and mitigating risks related to design, construction, operation, and revenue generation is essential.
3. *Regulatory and Policy Framework*: A stable and supportive regulatory environment is essential for attracting private investors. Clear policies, transparent bidding processes, and a robust legal framework contribute to the success of PPP projects.
4. *Value for Money (VFM)*: The project's VFM analysis compares the cost of delivering the project through PPP with the traditional public procurement method. A thorough VFM assessment ensures that the PPP offers an optimal solution in terms of cost and quality.
5. *Stakeholder Engagement*: Involvement of all relevant stakeholders, including local communities, civil society, and government agencies, are crucial for the smooth implementation and sustainability of PPP projects.

## Examples of successful PPP Projects in India

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1. *Delhi Metro*: One of the most notable PPP projects in India is the Delhi Metro, which has been a significant success in providing efficient and reliable public transportation in the capital city. The partnership between the Delhi Metro Rail Corporation (DMRC) and private companies has resulted in the development of a modern and extensive metro network.
2. *Indira Gandhi International Airport, Delhi*: The modernization and expansion of the Delhi airport through a PPP model have been a success story. GMR-led consortium partnered with the Airports Authority of India (AAI) to develop the airport into one of the busiest and most well-equipped airports in the country.
3. *Mumbai-Pune Expressway*: The Mumbai-Pune Expressway is India's first six-lane concrete high-speed expressway, connecting Mumbai and Pune. It was developed under the PPP model and has significantly reduced travel time between the two cities.

## Criticism of PPP

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1. *Cost Overruns and Delays*: PPP projects are sometimes criticized for cost overruns and delays in implementation. Private partners may face financial difficulties or underestimate project complexities, leading to project delays and increased costs.
2. *Lack of Transparency*: Critics argue that some PPP contracts lack transparency in terms of project details, financial arrangements, and risk-sharing. This opacity can raise concerns about potential conflicts of interest and mismanagement.
3. *Imbalanced Risk Allocation*: In some cases, the risk allocation between the public and private partners is perceived as unfair, putting an undue burden on the government or taxpayers.
4. *Profit Motive vs. Public Interest*: Critics contend that private partners may prioritize profit motives over public interest, leading to higher user fees, reduced service quality, or reluctance to take on unprofitable projects.

5. *Limited Accountability*: PPPs may face challenges in terms of accountability and oversight. The private partner's contractual obligations and performance may be difficult to enforce, especially if there are no proper mechanisms for addressing non-compliance.
6. *Shifting Liability to the Future*: PPPs can involve long-term concession agreements, transferring the responsibility of maintaining and operating the infrastructure to future generations. This may lead to deferred liabilities for the government and result in significant financial burdens for future administrations.
7. *Political and Regulatory Risks*: Changes in government policies, regulations, or political priorities during the project's concession period can create uncertainties and impact the profitability of private partners.

## Infrastructure Development of Urban and Rural Areas

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1. *Smart Cities Mission*: The Smart Cities Mission aims to develop 100 cities across India as "smart cities" by integrating technology and infrastructure to enhance urban living. The mission focuses on areas such as efficient urban mobility, improved public services, sustainable energy solutions, and enhanced citizen engagement. It seeks to create vibrant and livable urban spaces with better connectivity and amenities.
2. *Rurban Mission*: Shyama Prasad Mukherji Rurban Mission focuses on developing rural areas with urban amenities and services while retaining the essence of rural life. The mission aims to create "Rurban" clusters, which are rural areas that have the economic activities and quality of life of urban areas while preserving their rural character. It seeks to bridge the rural-urban divide and promote sustainable and inclusive development.
3. *AMRUT (Atal Mission for Rejuvenation and Urban Transformation)*: AMRUT aims to improve the infrastructure in cities and towns, focusing on areas such as water supply, sewerage, urban transport, and green spaces. The mission emphasizes the provision of basic amenities to urban areas and promotes sustainable urban development.
4. *Pradhan Mantri Awas Yojana (PMAY)*: PMAY is a flagship scheme that aims to provide affordable housing to all by 2022. It focuses on constructing houses for the economically weaker sections, low-income groups, and middle-income groups in both urban and rural areas. The scheme also supports the development of necessary infrastructure and facilities in housing colonies.
5. *Rural Infrastructure Development Fund (RIDF)*: RIDF is a fund created by the National Bank for Agriculture and Rural Development (NABARD) to support rural infrastructure development projects in areas such as irrigation, roads, bridges, and rural electrification.

## Additional Terms and Concepts

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### *Urban Heat Island Effect*

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The urban heat island (UHI) effect refers to the phenomenon where urban areas become significantly warmer than their rural surroundings due to human activities and alterations in the natural environment. This occurs because buildings, roads, and other infrastructure absorb and retain heat.

Example: In a city like Mumbai, during summer, the temperature in the city center can be several degrees higher than in nearby rural areas. This is because concrete and asphalt absorb more heat than natural vegetation and soil. Additionally, air conditioning units and vehicles release heat, contributing to the higher temperatures in urban areas compared to rural areas.

### *Waste to Energy*

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Waste to energy (WtE) is the process of generating energy, usually in the form of electricity or heat, from the treatment of waste. This method reduces the volume of waste and generates useful energy.

Example: In Delhi, there is a waste-to-energy plant that incinerates municipal solid waste to produce electricity. The plant processes tons of waste each day, reducing the amount of waste that would otherwise go to landfills and generating electricity to power homes and businesses.

### *Zero Energy Buildings*

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Zero energy buildings (ZEBs) are buildings designed to produce as much energy as they consume over a year. They achieve this through a combination of energy-efficient design, renewable energy sources (like solar panels), and energy-saving technologies.

Example: A new office building in Bengaluru is designed as a zero energy building. It has solar panels on the roof that generate electricity, high-efficiency insulation to reduce heating and cooling needs, and LED lighting systems. Over the course of a year, the building produces enough energy from its solar panels to offset the energy it consumes, achieving a net-zero energy status.

### *Sponge Cities*

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Sponge cities are urban areas designed to absorb and manage rainwater effectively, reducing the risk of flooding and improving water quality. They incorporate green infrastructure like permeable pavements, green roofs, wetlands, and parks to mimic natural water absorption and filtration processes.

Example: The city of Chennai, which faces frequent flooding during the monsoon season, implements sponge city principles by creating more green spaces and wetlands. New developments include permeable pavements that allow rainwater to seep into the ground rather than run off into drains. This helps reduce the flood risk and replenishes groundwater levels, making the city more resilient to heavy rainfall.

## Previous Years Mains Questions

1.	Do you think India will meet 50 percent of its energy needs from renewable energy by 2030? Justify your answer. How will the shift of subsidies from fossil fuels to renewables help achieve the above objective? Explain.	2022
2.	Why is Public Private Partnership (PPP) required in infrastructural projects? Examine the role of PPP model in the redevelopment of Railway Stations in India.	2022
3.	Explain the meaning of investment in an economy in terms of capital formation. Discuss the factors to be considered while designing a concession agreement between a public entity and a private entity.	2020
4.	Examine the developments of Airports in India through Joint Ventures under the Public-Private Partnership(PPP) model. What are the challenges faced by the authorities in this regard?	2017
5.	What are 'Smart Cities'? Examine their relevance for urban development in India. Will it increase rural-urban differences? Give arguments for 'Smart Villages' in the light of PURA and RURBAN Mission.	2016
6.	Explain how private-public partnership agreements, in longer gestation infrastructure projects, can transfer unsuitable liabilities to the future. What arrangements need to be put in place to ensure that successive generations' capacities are not compromised?	2014
7.	Write a note on India's green energy corridor to alleviate the problem of conventional energy.	2013
8.	Adoption of the PPP model for infrastructure development of the country has not been free of criticism. Critically discuss the pros and cons of the model.	2013
9.	What is the status of digitalization in the Indian economy? Examine the problems faced in this regard and suggest improvements.	2023

# 16

CHAPTER

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# Chapter 16

## Service

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The service sector of the economy refers to those parts of the economy that are involved in the production and distribution of services rather than tangible goods. This sector includes a wide variety of businesses, such as restaurants, banks, healthcare providers, entertainment companies, transportation services, and many others.

### Historical evolution of the service sector in India

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#### Pre-Independence Era

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Prior to India's independence in 1947, the economy was primarily agrarian. Limited services existed, mainly consisting of traditional services like retail, trade, and transportation.

#### Post-Independence Era

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After independence, India adopted a planned economy model, emphasizing industrialization and the public sector's role in economic development. The service sector initially played a secondary role in the economy. Basic services like banking, insurance, and government services began to develop during this period. The early stage of service sector development was driven by state-owned enterprises and public sector entities.

#### Economic Reforms and Liberalization (1990s)

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The liberalization policies allowed foreign direct investment (FDI) in various service sectors, which facilitated the entry of multinational companies. The Information Technology (IT) and Information Technology Enabled Services (ITeS) industry saw significant growth during this period, becoming a major contributor to the services sector. The banking and financial services sector also experienced significant reforms, including the entry of private banks and the establishment of the Securities and Exchange Board of India (SEBI).

#### Services-Led Growth (2000s-Present)

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In the 21st century, India experienced robust services-led economic growth, with the service sector becoming the largest contributor to GDP.

- The IT and ITeS industry, along with business process outsourcing (BPO) services, witnessed exponential growth, leading to the rise of India as a global outsourcing hub.
- The healthcare, education, and hospitality sectors also expanded rapidly to meet the growing demands of a rising middle class.
- E-commerce emerged as a disruptive force, transforming the retail and logistics landscape.
- India's tourism industry flourished, attracting both domestic and international travelers, contributing significantly to the services sector's growth.

- The government focused on skill development and encouraged entrepreneurship to further boost the services sector.

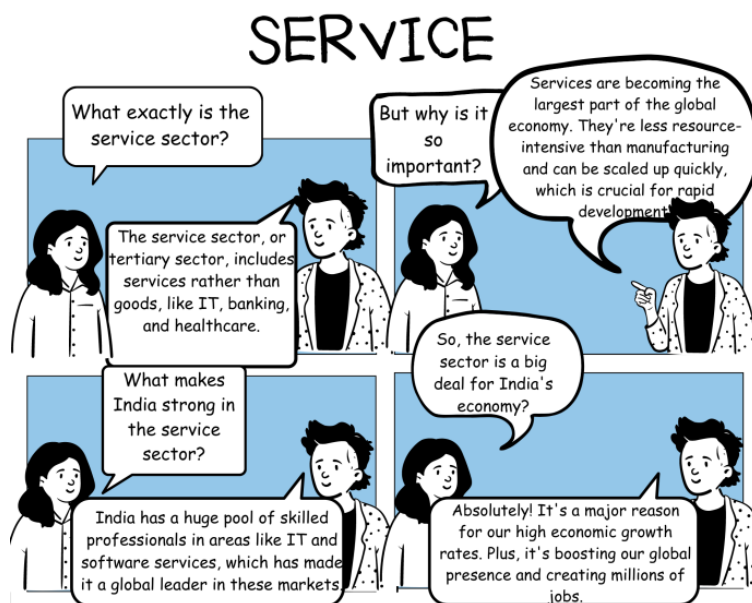
## Digital Revolution and Service Innovation

- The digital revolution in the 21st century further accelerated the growth of the service sector in India.
- Technological advancements, such as mobile internet and smartphone penetration, enabled the rapid expansion of digital services, including e-commerce, fintech, and online entertainment platforms.
- Online service delivery and digital payment systems witnessed widespread adoption, promoting financial inclusion and access to services for a larger population.

## Contribution of Service Sector to India's Economy

According to the World Bank, the service sector contributes around 54% of India's gross domestic product (GDP).

According to the National Statistical Office of India, the service sector employed around 34% of India's workforce in 2019-20.



## High-frequency indicators to track the growth momentum of India's services sector

High-Frequency Indicator	Definition	Interpretation
Services PMI	An index that measures the health of an economy's services sector based on survey responses from purchasing managers from various service industries, which asks them about the level of activity in their industry, such as new orders, employment, and production.	A reading above 50 indicates expansion, while below 50 indicates contraction. A higher reading suggests that the services sector is growing.

<b>Bank Credit to Services Sector</b>	The amount of money that banks lend to the services sector	A higher bank credit to the services sector indicates that banks are confident about the sector's growth prospects and are willing to lend more money to it.
<b>World Services Trade</b>	The exchange of services between different countries	An increase in world services trade can indicate a growing demand for India's services sector, which can translate into higher growth.
<b>FDI in Services</b>	Foreign investment in India's services sector, either in the form of equity or debt	An increase in FDI in the services sector can indicate that foreign investors are bullish about the sector's growth prospects, which can lead to more investment and growth.

## **Government policies and initiatives to promote the service sector**

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### **Services Exports from India Scheme (SEIS)**

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- SEIS provides financial incentives to service exporters to promote trade in services. It offers exporters rewards in the form of duty credit scrips based on their foreign exchange earnings.
- The scheme supports various service sectors, including IT/ITeS, financial services, logistics, healthcare, and tourism.

### **Make in India**

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- The 'Make in India' initiative aims to boost manufacturing and promote India as a global manufacturing hub. However, the services sector is also critical for the success of this program, as services provide essential inputs to the manufacturing process.
- The initiative identifies thrust areas in both manufacturing and services sectors, encouraging growth and investment in these sectors.

### **Start-up India and Stand-up India**

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- 'Start-up India' and 'Stand-up India' initiatives aim to promote entrepreneurship and innovation in the country, fostering the growth of start-ups across various service sectors.
- The initiatives provide various benefits and incentives to start-ups, such as tax exemptions, easier regulatory compliance, access to funding, and incubation support.

### **Digital India**

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- 'Digital India' aims to transform India into a digitally empowered society. It encourages the use of technology and digital platforms to enhance service delivery and improve access to digital services across various sectors.

## Skill India

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- The 'Skill India' initiative focuses on skill development and vocational training to create a skilled workforce in various service sectors, meeting industry demands and enhancing employability.

## Smart Cities

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- The Smart Cities Mission aims to develop modern and sustainable cities that provide efficient and quality services to residents. It involves technology-driven initiatives and services to improve urban living.

## Ease of Doing Business

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- The government has taken several measures to improve the ease of doing business in India, simplifying regulatory processes, reducing bureaucratic hurdles, and facilitating a conducive business environment for service providers.

## International Agreements and Trade Promotion

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- The government negotiates and signs international trade agreements to enhance market access for Indian service providers in foreign countries. These agreements aim to promote trade in services and create opportunities for service exporters.
- India participates in international fairs and exhibitions to showcase its service capabilities and attract foreign investments and collaborations.

## Challenges faced by the service sector in India

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1. *Infrastructure Deficiencies*: Inadequate and outdated infrastructure, including transportation networks, ports, and communication facilities, can lead to delays, inefficiencies, and higher operational costs for service providers.
2. *Skills Mismatch and Talent Retention*: There may be a disconnect between the skills possessed by the workforce and the skills required by the rapidly evolving service sectors. Additionally, retaining skilled talent in the face of competition can be a challenge.
3. *Regulatory and Bureaucratic Hurdles*: Complex and cumbersome regulatory processes, along with bureaucratic inefficiencies, can hinder ease of doing business and pose challenges for service providers, especially for start-ups and small businesses.
4. *Financing Constraints*: Access to adequate financing can be a challenge for service providers, especially for small and medium-sized enterprises (SMEs), leading to limited growth opportunities and expansion.
5. *Security Concerns*: The service sector, particularly IT and financial services, faces cybersecurity risks, data breaches, and other security concerns that can undermine customer trust and confidence.
6. *Policy and Taxation Issues*: Inconsistent policies, changes in regulations, and complex tax structures can create uncertainty and affect business planning and investment decisions in the service sector.

## Opportunities for the service sector in India

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1. *Growing Domestic Market*: India's large and rapidly growing population presents a vast domestic market for various services, including healthcare, education, financial services, retail, and entertainment.
2. *Rising Middle Class and Urbanization*: The expanding middle-class population and increasing urbanization are leading to greater consumer spending on various services, creating opportunities for retail, hospitality, healthcare, and entertainment sectors.
3. *Digital Transformation*: The increasing adoption of digital technologies and internet penetration is driving the demand for digital services, such as e-commerce, fintech, IT/ITeS, and digital entertainment.
4. *IT and IT-Enabled Services (ITeS)*: India's strong presence in the IT and ITeS sector provides opportunities for software development, business process outsourcing, and IT consulting services for global clients.
5. *Healthcare and Pharmaceuticals*: The healthcare sector offers opportunities for medical services, diagnostic centers, telemedicine, medical tourism, and pharmaceutical research and manufacturing.
6. *Education and Training*: The growing demand for quality education and skill development presents opportunities for educational institutions, vocational training centers, and e-learning platforms.
7. *Financial Services*: India's banking and financial services sector has significant potential for growth, including digital banking, insurance, asset management, and financial inclusion initiatives.
8. *Tourism and Hospitality*: India's diverse cultural heritage and natural attractions offer opportunities for tourism and hospitality services, including hotels, tour operators, and travel agencies.
9. *Start-up Ecosystem*: The government's initiatives to promote entrepreneurship and start-ups create opportunities for innovative service providers in various sectors, including technology, healthcare, and logistics.
10. *Skill Development and Human Capital*: India's young and growing population provides a skilled workforce for various service industries, attracting global companies seeking cost-effective talent.

## Key sub-sectors in India's Services Sector

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### Tourism and Hotel industry

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The tourism and hotel industry in India is an important sub-sector of the service sector, which includes a wide range of businesses, such as hotels, resorts, tour operators, travel agencies, restaurants, and more.

### Challenges

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1. Limited infrastructure and facilities in certain regions
2. Seasonal fluctuations in demand due to weather and holidays
3. Safety concerns for tourists in certain areas

## Government Initiatives

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1. The government has launched several initiatives to promote tourism and improve infrastructure, such as the Swadesh Darshan scheme and the Incredible India campaign.
2. The Ministry of Tourism has also established the Incredible India Tourist Helpline, which provides 24/7 assistance to tourists in multiple languages.
3. The government has also implemented measures to improve safety and security for tourists, such as the introduction of Tourist Police and the adoption of the e-Visa system for easier and faster visa processing.

## Real Estate

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The real estate sector refers to the buying, selling, renting, and leasing of properties such as land, buildings, and homes.

## Challenges

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1. Lack of transparency and accountability in the sector
2. High cost of borrowing and limited access to financing
3. Delayed regulatory approvals and complicated land acquisition processes
4. Inadequate infrastructure such as transportation and utilities
5. Lack of skilled labor and workforce training

## Government Initiatives

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1. **Real Estate (Regulation and Development) Act (RERA)** - This act aims to regulate the real estate sector and improve transparency by requiring developers to register their projects and provide timely updates to buyers.
2. **Pradhan Mantri Awas Yojana (PMAY)** - This scheme aims to provide affordable housing to all and offers subsidies and incentives for developers and buyers.
3. **Smart City Mission** - This mission aims to develop 100 smart cities across India with modern infrastructure and amenities to attract investment and spur economic growth.
4. **Real Estate Investment Trusts (REITs)** - This allows investors to invest in income-generating real estate assets and provides an alternative source of funding for developers.
5. **Digital India** - This initiative aims to improve digital infrastructure and connectivity, which can help the real estate sub-sector by enabling online transactions, reducing paperwork, and improving communication.

## IT-BPM industry

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The IT-BPM industry is a key sub-sector of India's service sector that includes information technology (IT) services, business process management (BPM), and software development. This industry plays a significant role in India's economy and has been a major contributor to the country's growth in recent years.

## Challenges

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1. Competition from other countries like China, the Philippines, and Vietnam

2. Rising costs of skilled labor and infrastructure
3. Regulatory issues and policy uncertainty in some markets
4. The need to adapt to new technologies and changing customer preferences

### Government Initiatives

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1. **Digital India:** A program aimed at promoting the use of technology and digital infrastructure in the country.
2. **Skill India:** A program to train and upskill the Indian workforce, including those working in the IT-BPM industry.
3. **Make in India:** A program to promote manufacturing and investment in India, including in the IT-BPM sector.
4. **Startup India:** A program aimed at promoting entrepreneurship and startups in India.

The IT-BPM industry has played a major role in India's economic growth and development.

1. **Tata Consultancy Services (TCS):** A multinational IT services company based in Mumbai, India. TCS is one of the largest employers in the IT-BPM sector and has a presence in over 46 countries.
2. **Infosys:** A global leader in IT and BPM services based in Bangalore, India. Infosys has a presence in over 50 countries and employs over 270,000 people.
3. **Wipro:** A multinational IT services company based in Bangalore, India. Wipro provides services in areas such as IT consulting, software development, and business process outsourcing. It has a presence in over 50 countries and employs over 185,000 people.

### E-commerce

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E-commerce involves buying and selling goods and services over the internet. It has become increasingly popular in recent years due to the convenience and accessibility it provides to consumers and businesses alike. E-commerce in India can take many forms, including online marketplaces, social media platforms, and individual websites.

### Challenges

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1. **Infrastructure:** The lack of reliable internet connectivity and logistics infrastructure can make it difficult for e-commerce companies to deliver goods and services to customers in a timely and efficient manner.
2. **Payment methods:** Many consumers in India still prefer to pay for goods and services in cash, which can make it difficult for e-commerce companies to facilitate transactions online.
3. **Competition:** The e-commerce market in India is highly competitive, with many domestic and international players vying for market share. This can make it difficult for smaller companies to compete and succeed.
4. **Regulatory environment:** E-commerce in India is subject to a complex regulatory environment that can make it difficult for companies to operate and expand.

### Government Initiatives

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1. **Digital India:** The Digital India program aims to transform India into a digitally empowered society and economy by improving internet connectivity and digital infrastructure.

2. **Startup India:** The Startup India program aims to promote entrepreneurship and innovation in India by providing support and incentives to startups, including those in the e-commerce sector.
3. **National E-Commerce Policy:** The government is currently working on a national e-commerce policy that aims to create a regulatory framework that is conducive to the growth of e-commerce in India.
4. **FDI in e-commerce:** The government has allowed 100% FDI in e-commerce marketplaces, which has helped to attract investment and promote competition in the sector.

## Digital Financial Services

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Digital financial services refer to financial services that are delivered through digital channels, such as mobile apps, internet banking, and digital wallets. In India, digital financial services have been growing rapidly in recent years, driven by factors such as the rise of smartphones, increasing internet penetration, and the government's push towards a cashless economy.

## Challenges

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1. **Lack of digital infrastructure in rural areas:** Many people in rural areas do not have access to the internet or smartphones, which can limit their ability to use digital financial services.
2. **Low levels of financial literacy:** Some people may not understand how to use digital financial services or may be hesitant to use them due to security concerns.
3. **Cybersecurity risks:** Digital financial services are vulnerable to cyber attacks, which can put customers' personal and financial information at risk.

## Government Initiatives

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1. **Digital India:** The Digital India initiative aims to provide digital infrastructure and services to all citizens, including those in rural areas.
2. **Jan Dhan Yojana:** This scheme aims to promote financial inclusion by providing bank accounts to all households in India, with a focus on those in rural areas. This has helped to increase the adoption of digital financial services among previously unbanked populations.
3. **UPI and BHIM:** The Unified Payments Interface (UPI) and Bharat Interface for Money (BHIM) are digital payment systems that allow users to transfer money between bank accounts using their mobile phones.
4. **Cybersecurity initiatives:** The government has also taken steps to improve cybersecurity, such as launching the Cyber Swachhta Kendra to provide free antivirus software to citizens and setting up a National Cyber Coordination Centre to monitor cyber threats.

## Space Sector

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The Indian Space Research Organisation (ISRO) is the primary agency responsible for space exploration, satellite technology, and other related activities. The space sector plays an important role in various industries, including telecommunications, navigation, agriculture, defense, and disaster management.

## Challenges

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1. **Limited funding and resources for space exploration and research**



2. Intense competition from other countries in the space industry
3. Complex regulatory environment and bureaucratic procedures
4. Technological advancements and innovation require significant investments

### Government Initiatives

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1. The establishment of the Indian National Space Promotion and Authorization Centre (IN-SPACe) to provide a one-stop-shop for all space-related activities, including licensing, clearances, and authorizations.
2. The launch of the Space Technology Incubation Centres (S-TIC) program to support startups and entrepreneurs in the space sector by providing funding, mentorship, and access to resources and facilities.
3. The government's "Make in India" initiative aims to encourage domestic manufacturing and production of space-related technologies and equipment, to reduce dependence on foreign imports and strengthen the country's self-reliance in this sector.

### Examples

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- India's Mars Orbiter Mission, launched in 2013, was a major achievement for the country's space sector, making it the first nation in the world to successfully enter Mars' orbit on its first attempt.
- The Indian Regional Navigation Satellite System (IRNSS), also known as NavIC, is a navigation system developed by ISRO that provides accurate positioning and timing services to users in India and the surrounding regions, supporting various applications such as transportation, disaster management, and location-based services.
- ISRO's commercial arm, Antrix Corporation, has signed agreements with various international clients to provide satellite launch services, including the launch of 104 satellites in a single mission in 2017, setting a new world record.

### Shipping and Port Services

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Shipping and port services involve the transportation of goods and people by sea, as well as the management and operation of ports that facilitate such transportation. The shipping and port industry is an important contributor to India's economy, as it enables international trade, creates employment opportunities, and generates revenue.

### Challenges

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1. Infrastructure: One of the major challenges faced by the shipping and port industry in India is the lack of adequate infrastructure, including ports, terminals, and transportation networks, which can lead to delays and inefficiencies in the system.
2. Competition: The shipping and port industry is highly competitive, with many players vying for market share. This can lead to price wars and reduced profitability for some businesses.
3. Technology: The industry is also facing challenges related to the adoption of new technologies, such as automation, digitalization, and blockchain, which can improve efficiency and reduce costs.

## Government Initiatives

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1. **Sagarmala:** The Indian government has launched the Sagarmala initiative to modernize the country's ports and shipping infrastructure. The initiative aims to develop new ports, improve existing ones, and create a seamless transportation network that connects ports to the hinterland.
2. **National Maritime Development Program:** The government has also launched the National Maritime Development Program to promote the development of the shipping and port industry. The program provides financial support for infrastructure projects, technology adoption, and skill development.
3. **Ease of Doing Business:** The government has taken steps to improve the ease of doing business in the shipping and port industry. This includes simplifying regulatory processes, reducing paperwork, and introducing digital initiatives such as e-billing and e-payment systems.

## Examples

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- The Mundra Port in Gujarat is one of the largest ports in India, handling over 200 million tonnes of cargo annually. The port is operated by the Adani Group, which has invested heavily in developing its infrastructure and facilities.
- The Maersk Line, a Danish shipping company, is one of the leading players in the Indian shipping industry. The company operates over 20 vessels in India and has a significant presence in the country's major ports.
- The Cochin Shipyard in Kerala is a government-owned shipbuilding and repair facility that has built over 200 vessels for domestic and international customers. The shipyard has recently launched a new facility to manufacture LNG carriers, which is expected to boost its revenue and competitiveness.

## Banking and Financial Services

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The Banking and Financial Services sector includes various services related to banking, such as deposit-taking, lending, and investment, as well as insurance and other financial services. This sub-sector is a critical part of the Indian economy, as it facilitates economic growth by providing businesses and individuals with access to capital and financial services.

## Challenges

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1. **Non-performing assets:** This refers to loans that are not being repaid by borrowers, which can create financial difficulties for banks and other financial institutions.
2. **Lack of financial inclusion:** Many people in India, particularly those in rural areas, do not have access to basic financial services like banking and insurance.
3. **Cybersecurity risks:** As financial transactions increasingly move online, there is a growing risk of cyber attacks that could compromise the security of financial systems.

## Government initiatives

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1. **Pradhan Mantri Jan Dhan Yojana:** This initiative aims to promote financial inclusion by providing every household in India with a bank account.
2. **Digital India:** This initiative seeks to promote the use of technology in various sectors, including banking and financial services, to improve efficiency and reduce costs.

3. [Insolvency and Bankruptcy Code](#): This law provides a framework for the timely resolution of non-performing assets and helps to strengthen the financial system by promoting accountability and transparency.

## Additional Terms and Concepts

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### *White Collar Workers*

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White collar workers are employees who perform professional, managerial, or administrative work. These jobs are typically performed in an office environment and often require higher education or specialized skills.

Example: An accountant working in a corporate office in Mumbai is a white collar worker.

### *Gig Economy*

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The gig economy refers to a labor market characterized by short-term, flexible jobs or "gigs" instead of traditional, long-term employment. Workers in the gig economy often take on freelance or part-time jobs, usually facilitated through digital platforms.

Example: An individual in Bangalore drives for a ride-sharing service like Uber. Instead of working a traditional 9-to-5 job, they choose their own hours and work when they want. This flexibility is a hallmark of the gig economy. Other examples include freelancers working on projects through platforms like Upwork or people delivering food through services like Swiggy.

### *Servitization*

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Servitization is the transformation of a manufacturing company's business model to include services as an integral part of its offerings. Instead of just selling products, companies also provide related services to add value and create long-term customer relationships.

Example: A company that manufactures air conditioners in India starts offering maintenance contracts, installation services, and remote monitoring solutions for their products. Instead of only selling air conditioners, they now provide a complete package that includes the product and ongoing services. This helps the company build stronger relationships with customers and generate additional revenue streams.

### *Intangible Assets*

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Intangible assets are non-physical assets that have value due to the intellectual or legal rights they confer. These assets cannot be touched or seen but are essential for a company's value and operations.

Example: A popular brand like Tata has several intangible assets:

- **Brand Recognition:** The Tata name itself is valuable because it is recognized and trusted worldwide.
- **Patents:** Tata Motors holds patents for various automotive technologies, which give them a competitive edge in the market.
- **Goodwill:** The reputation Tata has built over the years for reliability and quality adds significant value to the company, even though it is not a physical asset.

### *SaaS (Software as a Service)*

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SaaS is a software distribution model where applications are hosted by a third-party provider and made available to customers over the internet. Instead of buying and installing software on individual computers, users subscribe to the software and access it via the web.

Example: Google Workspace (formerly G Suite) is a SaaS product that includes tools like Gmail, Google Docs, and Google Drive. Businesses subscribe to Google Workspace to use these tools online, without needing to install or maintain any software on their own computers.

### *Fintech (Financial Technology)*

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Fintech refers to the integration of technology into offerings by financial services companies to improve their use and delivery to consumers. It encompasses a wide range of applications, including mobile banking, online lending, cryptocurrency, and investment apps.

Example: Paytm is a leading Indian fintech company that started as a mobile wallet and has expanded into various financial services, including payments, banking, insurance, and investments. Paytm allows users to make digital payments, transfer money, and access financial services directly from their smartphones, revolutionizing the way financial transactions are conducted in India.

### Previous Years Prelims Questions

1.	<p>With reference to foreign-owned e-commerce firms operating in India, which of the following statements is/are correct?</p> <ol style="list-style-type: none"><li>1. They can sell their own goods in addition to offering their platforms as market-places.</li><li>2. The degree to which they can own big sellers on their platforms is limited.</li></ol> <p>Select the correct answer using the code given below:</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	2022
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### Previous Years Mains Questions

1.	<p>National urban transport policy emphasizes on moving people instead of moving vehicles. Discuss critically the success of various strategies of the government in this regard.</p>	2014
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#### Answers

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# 17

**CHAPTER**

EXTERNAL **\$**ECTOR





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# Chapter 17

## External Sector

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In an increasingly interconnected world, the external sector plays a pivotal role in shaping the economic fortunes of nations. The flow of goods, services, and capital across international borders has become a defining feature of our globalized economy. As economies become more integrated, understanding the dynamics and implications of the external sector is essential for policymakers, businesses, and individuals alike.

### Balance of Payments

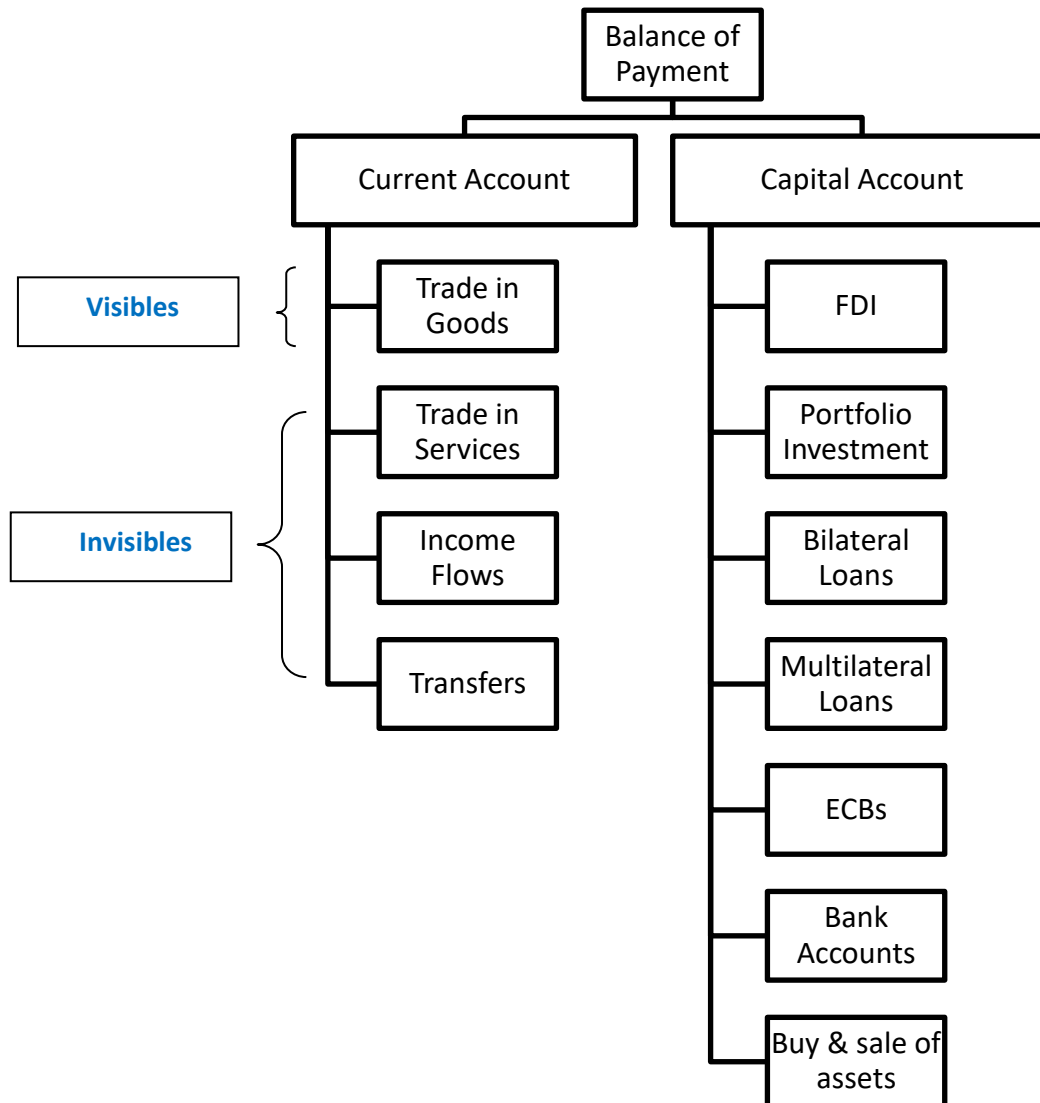
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The Balance of Payments (BoP) is a systematic record of all economic transactions between a country and the rest of the world during a specified time period, typically a financial year. The BOP follows the double entry bookkeeping system, ensuring that every transaction is recorded as both a credit and a debit entry, thereby maintaining balance.

The balance of payments is divided into two main components: the current account and the capital account.

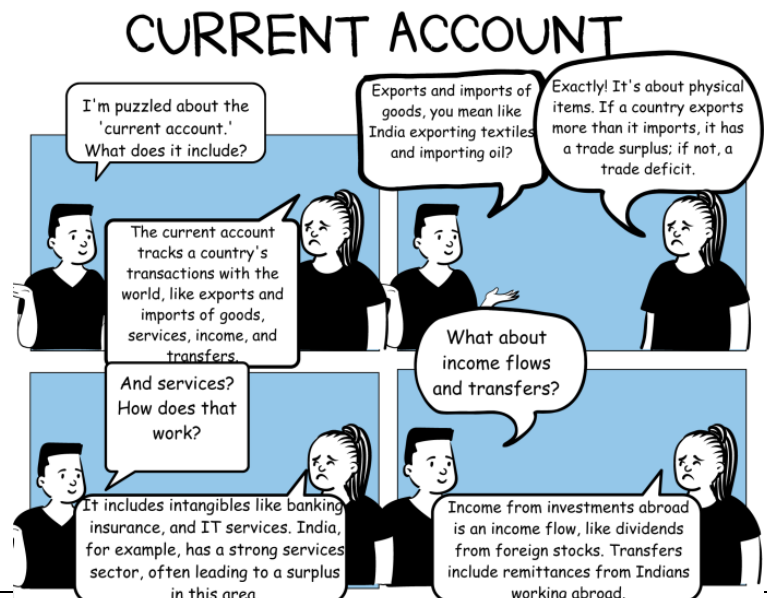
### Components of Balance of Payments

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## Current Account

Current account refers to the flow of current transactions or regular economic activities that occur within a specific period, such as a year. It primarily focuses on the exchange of goods, services, income, and transfers between a country and the rest of the world. These transactions are considered part of the ongoing, day-to-day economic interactions that contribute to a country's current economic performance. The term "current" highlights the timeliness and



relevance of these transactions to the country's current economic situation.

The current account is divided into two main components: the visible account (trade in goods) and the invisible account (trade in services, income, transfers).

Let's break down the components of the current account.

1. **Trade in Goods:** This component includes exports and imports of physical goods. When India sells goods like machinery, textiles, or automobiles to other countries, it counts as an export. On the other hand, when India buys goods like oil, electronics, or food products from abroad, it counts as an import. The difference between the value of exports and imports is known as the **trade balance**. If India exports more goods than it imports, it will have a trade surplus. Conversely, if India imports more goods than it exports, it will have a trade deficit, which implies more money flowing out of the country.

**Inflow:** India exports automobiles worth \$1 million to a foreign country.

**Outflow:** India imports machinery worth \$2 million from a foreign country.

2. **Trade in Services:** This component includes services like tourism, transportation, software exports, and financial services. When people from other countries visit India as tourists or when Indian software companies provide services to clients abroad, it adds to the export of services. Conversely, when Indians travel abroad or when foreign companies provide services in India, it adds to the import of services.

**Inflow:** A foreign company pays ₹50 lakh to an Indian software company for software development services.

**Outflow:** An Indian citizen pays \$10,000 to a foreign tourism agency for a vacation package.

3. **Income Flows:** This component accounts for the income earned by Indians from their investments abroad and income earned by foreigners from their investments in India. It includes factors such as interest, dividends, profits, and wages. For instance, if an Indian company has investments in a foreign country and earns profits or dividends from those investments, it adds to India's income from abroad. Conversely, if foreign companies or individuals earn income from their investments in India, it adds to India's income payable to foreigners.

**Inflow:** An Indian software company receives \$1 million in royalty payments from a foreign company for the use of its patented technology.

**Outflow:** Foreign investors receive dividends of ₹50 lakh from their investments in Indian companies.

4. **Transfers:** This component includes unilateral transfers of money between India and other countries. It comprises remittances from Indians working abroad, foreign aid received, and grants or donations. For instance, if an Indian working in the United States sends money back home to support their family, it adds to the transfer inflows. Conversely, if India provides financial aid to another country or contributes to international organizations, it adds to the transfer outflows.

**Inflow:** Indian workers abroad send \$2 million in remittances back to their families in India.

**Outflow:** An Indian resident donates ₹10 lakh to a charitable organization in a foreign country.

## Current Account Balance

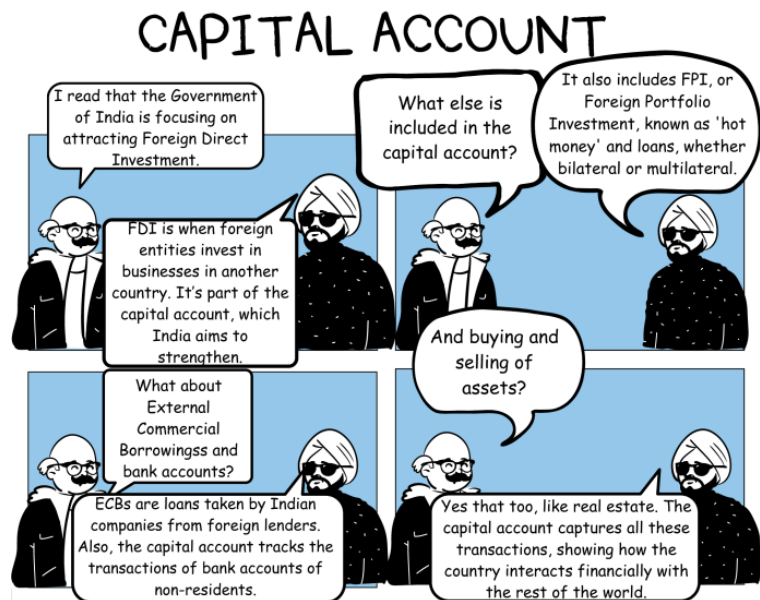
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**Current Account Balance = (Trade in Goods) + (Trade in Services) + (Income Flows) + (Transfers)**

If the total value of exports, income, and transfers exceeds the total value of imports, India will have a **current account surplus**. Conversely, if the total value of imports, income, and transfers exceeds the total value of exports, India will have a **current account deficit**.

## Capital Account

On the other hand, Capital account refers to the flow of capital or financial transactions involving changes in ownership of financial assets and liabilities. It encompasses various types of investments, including foreign direct investment (FDI), portfolio investment, loans, and debt transactions. The capital account captures the movement of capital across borders, indicating changes in the ownership of financial resources and the acquisition or disposal of assets. The term "capital" emphasizes the financial nature of these transactions and the impact they have on a country's overall capital stock and wealth.



Let's explore the capital account in detail:

### 1. Foreign Direct Investment (FDI):

FDI refers to investments made by foreign entities in the domestic economy. It involves the acquisition of a substantial ownership stake in a company or the establishment of new ventures. FDI can be both inbound (foreign investments in India) and outbound (Indian investments in foreign countries).

**Inflow:** A multinational corporation based in the United States establishes a manufacturing plant in India. They invest \$10 million in setting up the plant and become a majority shareholder in the Indian company.

**Outflow:** An Indian company expands its operations overseas by acquiring a pharmaceutical company in Germany for €20 million.

### 2. Portfolio Investment:

Portfolio investment involves the purchase and sale of financial assets, such as stocks, bonds, and mutual funds, in foreign markets. Unlike FDI, portfolio investment does not entail direct control or ownership of the invested entity.

**Inflow:** A Foreign investor buys \$1,000 worth of shares in a company listed on the Bombay Stock Exchange.

**Outflow:** An Indian investor buys \$5,000 worth of shares in a technology company listed on the New York Stock Exchange.

### 3. Bilateral Loans:

Bilateral loans are funds borrowed by one country from another country on a government-to-government basis. These loans are often provided for specific purposes, such as infrastructure development, economic reforms, or social projects.

**Inflow:** The Indian government secures a \$100 million loan from the government of Japan to finance the construction of a high-speed railway project.

**Outflow:** The Indian government provides a \$50 million loan to a neighboring country for disaster relief and reconstruction efforts.

#### 4. Multilateral Loans:

Multilateral loans are funds borrowed by a country from international financial institutions such as the World Bank, International Monetary Fund (IMF), or regional development banks. These loans are often extended to countries facing economic challenges or to support development initiatives.

**Inflow:** India receives a \$500 million loan from the World Bank to improve access to clean water and sanitation in rural areas.

**Outflow:** The Indian government contributes \$200 million to a regional development bank to support infrastructure projects in other member countries.

#### 5. External Commercial Borrowings (ECBs):

ECBs refer to loans taken by domestic entities from foreign lenders. These loans can be either in the form of bank loans or bond issuances and are utilized for various purposes, such as infrastructure development or business expansion.

**Inflow:** An Indian company secures a \$5 million loan from a foreign bank to fund the construction of a new factory.

**Outflow:** An Indian bank gives a \$5 million loan to a foreign company to construct a production unit.

#### 6. Bank Accounts:

Bank accounts held by non-residents are also recorded in the capital account. These accounts can be in the form of Non-Resident External (NRE) accounts, Non-Resident Ordinary (NRO) accounts, or Foreign Currency Non-Resident (FCNR) accounts.

**Inflow:** An NRI (Non-Resident Indian) transfers \$10,000 from their foreign bank account to an NRE account in India.

**Outflow:** An Indian resident deposits ₹5 lakh in a foreign currency account maintained in a bank located overseas.

#### 7. Buy and Sale of Assets:

The purchase and sale of physical assets, such as real estate, land, and natural resources, between residents and non-residents are recorded in the capital account.

**Inflow:** A foreign investor purchases a commercial property in India for ₹2 crore.

**Outflow:** An Indian investor purchases a piece of real estate in a foreign country for \$1 million.

### Capital Account Balance

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The capital account balance represents the net difference between the credit and debit entries in the capital account. It measures the overall flow of capital into and out of a country over a specific period.

If the credit entries in the capital account exceed the debit entries, the capital account balance will be positive, indicating a net inflow of capital.

Conversely, if the debit entries exceed the credit entries, the capital account balance will be negative, indicating a net outflow of capital.

## Balance of Payments Equilibrium and Disequilibrium

BOP Condition	Description
<b>BOP Equilibrium</b>	The BOP is in equilibrium when the sum of the current account balance and capital account balance is zero. This indicates that a country's total payments for imports and other international transactions are equal to its total receipts from exports and other inflows.
<b>BOP Surplus</b>	A BOP surplus occurs when the sum of the current account balance and capital account balance is positive. This indicates that a country is receiving more funds from its international transactions than it is paying out. A surplus often implies an accumulation of foreign assets and claims on other countries.
<b>BOP Deficit</b>	A BOP deficit occurs when the sum of the current account balance and capital account balance is negative. This indicates that a country is paying out more funds in its international transactions than it is receiving. A deficit often implies a reliance on external borrowing or the sale of domestic assets to finance the shortfall.

### Measures to Correct BOP Surplus

- **Encourage domestic consumption:** Promote policies that stimulate domestic spending and investment to reduce reliance on external demand.
- **Boost imports:** Implement measures to liberalize imports and remove trade barriers, making foreign goods more accessible to domestic consumers.
- **Fiscal policy adjustments:** Implement fiscal measures such as reducing government spending or adjusting tax policies to stimulate domestic demand and reduce the surplus.

### Measures to Correct BOP Deficit

- **Promote exports:** Develop export-oriented strategies by identifying competitive advantages, investing in productive sectors, and providing support to domestic exporters.
- **Import substitution:** Encourage the production of goods that can replace imported products, reducing the reliance on foreign goods and narrowing the trade deficit.
- **Enhance competitiveness:** Implement policies to improve the efficiency and competitiveness of domestic industries, such as investing in technology, research, and development.
- **Fiscal consolidation:** Adopt measures to control government spending, reduce fiscal deficits, and manage public debt, which can help stabilize the overall economy.
- **Attract foreign capital:** Encourage foreign direct investment to boost capital inflows, which can help finance the deficit and support economic growth.
- **Exchange rate adjustments:** May consider adjusting the exchange rate to make exports more competitive and imports relatively more expensive, aiming to rebalance trade flows.

## Foreign Exchange Reserve

Foreign exchange reserves, also known as forex reserves, are the foreign currencies and other assets held by a country's central bank. These reserves serve as a financial buffer and are crucial for ensuring stability in international trade and managing economic risks.



1. **BOP Surplus:** When a country has a BOP surplus, it means that the inflows of foreign currency into the country exceed the outflows.

In the case of a BOP surplus, the country's central bank may choose to increase its foreign exchange reserves. It does so by buying the excess foreign currency entering the country's economy. These additional reserves serve as a cushion to stabilize the country's currency exchange rate and can be used to pay for imports, service foreign debt, or address any future balance of payment deficits.

2. **BOP Deficit:** Conversely, a BOP deficit occurs when the outflows of foreign currency from a country exceed the inflows.

When a country experiences a BOP deficit, its foreign exchange reserves may decline. To cover the deficit, the central bank may need to utilize its foreign exchange reserves by selling foreign currency in exchange for the domestic currency. This intervention aims to support the domestic currency's value, prevent excessive depreciation, and ensure stability in international trade and financial transactions.

If a BOP deficit persists and foreign exchange reserves deplete significantly, it can lead to economic challenges, including a currency crisis, reduced import capacity, and difficulties in meeting external obligations. In such cases, countries may seek external assistance, implement policy adjustments, or take measures to address the underlying issues causing the deficit. A country's ability to finance its imports using its foreign exchange reserves is known as **Import cover**.

Overall, foreign exchange reserves play a crucial role in managing the effects of BOP deficits or surpluses. They provide a buffer to mitigate potential imbalances, maintain currency stability, and support the overall economic well-being of a country.

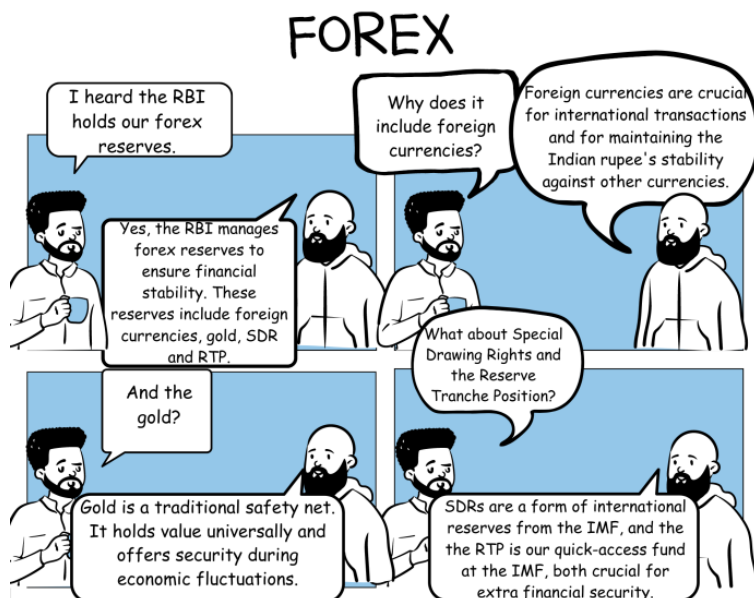
## Components of Forex Reserves

### Foreign Currencies

Foreign currencies represent the holdings of different currencies, such as the US dollar, euro, yen and renminbi by the central bank.

**Accumulation of Foreign Currencies:** Central banks accumulate foreign currencies in various ways:

- **Trade Surpluses:** For example, if India exports software services to Europe and receives euros in return, the Reserve Bank of India (RBI) may acquire those euros to build up its foreign currency reserves.
- **Capital Inflows:** When foreign investors invest in a country, they often bring in foreign currencies. The central bank may then acquire and hold these currencies as part of the foreign exchange reserves.



- **International Borrowings:** When a country borrows funds from international institutions or issues bonds in foreign markets, it receives foreign currencies as the loan proceeds. These currencies can be added to the reserves.

### Role of Foreign Currencies:

Foreign currencies serve several purposes within a country's foreign exchange reserves:

- **Exchange Rate Stability:** Having a sufficient reserve of foreign currencies allows a central bank to intervene in the foreign exchange market. By buying or selling foreign currencies, the central bank can influence the value of its domestic currency and maintain stability in the exchange rate.
- **International Trade & External Obligations:** Foreign currencies can be used to conduct international trade or fulfill external obligations, such as repaying foreign debt or meeting import payments. For instance, if India needs to import oil from Saudi Arabia, it can use its foreign currencies to purchase the necessary Saudi riyals.
- **Confidence and Credibility:** Holding an adequate amount of foreign currencies enhances a country's credibility and reassures international investors and trading partners. It demonstrates the country's ability to honor its financial commitments and strengthens its standing in global financial markets.

## Gold

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Gold refers to the physical metal in the form of gold bars or coins that a country's central bank holds as part of its reserve assets. Gold has been considered a valuable asset throughout history, and central banks hold it for several reasons:

**Store of Value:** Gold is seen as a reliable store of value over time. Its physical nature and limited supply make it resistant to inflation and currency fluctuations.

**International Acceptance:** Gold is universally accepted as a form of payment and is traded on global markets. If a country faces a shortage of foreign currency, it can sell gold to obtain the needed funds.

**Confidence and Stability:** Gold holdings can boost confidence in a country's monetary system. It signals that the central bank has a tangible and highly valued asset, which can enhance trust in the currency and contribute to financial stability.

**Crisis Hedge:** During times of economic uncertainty or financial crises, gold often retains its value or even appreciates. Central banks hold gold as a hedge against adverse events, providing a cushion to weather economic storms.

If RBI acquires additional foreign currency through various means, such as exports, investments, or borrowing, it may choose to diversify its reserves by purchasing gold. This purchase could be from international markets or domestic sources. The RBI would then store the physical gold securely in its vaults.

In times of need, such as during a balance of payments crisis or to meet external obligations, the RBI has the option to sell a portion of its gold holdings. This sale would generate foreign currency that can be used to stabilize the currency, support imports, or repay international debt.

### Special Drawing Rights (SDRs)

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SDRs are a type of international reserve asset created and allocated by the International Monetary Fund (IMF). They serve as a supplement to the foreign exchange reserves held by member countries, including India. SDRs are not a physical currency but rather a form of accounting entry used in international transactions between central banks and the IMF.

The value of SDRs is based on a basket of major international currencies, including the US dollar, euro, Chinese yuan, Japanese yen, and British pound. The IMF periodically reviews the currency composition and weightings of this basket to ensure it reflects the global economic landscape.

Let's say India has been allocated SDRs worth \$5 billion by the IMF. These SDRs represent India's claim on the IMF and can be used to obtain foreign currencies from other countries participating in SDR transactions.

For instance, if India faces a sudden shortage of foreign currency due to increased import payments, it can utilize its SDR holdings. India could exchange its SDRs with another country, receiving a foreign currency, such as euros, in return. This transaction helps maintain liquidity and ensures India can continue to engage in international trade and meet its financial obligations.

Furthermore, SDRs also serve as a unit of account for international organizations and can be used in certain financial transactions among central banks and governments.

### Reserves Tranche Position (RTP)

The Reserves Tranche Position refers to a country's quota or share in the International Monetary Fund (IMF). Each member country has a specific quota based on its economic size, and this quota determines its financial and voting rights within the IMF.

To illustrate this concept, let's take the example of India's Reserves Tranche Position:

Imagine that India's quota in the IMF is set at \$10 billion. This means that India has the right to access up to \$10 billion from the IMF whenever it faces a balance of payments crisis or requires additional foreign exchange reserves.

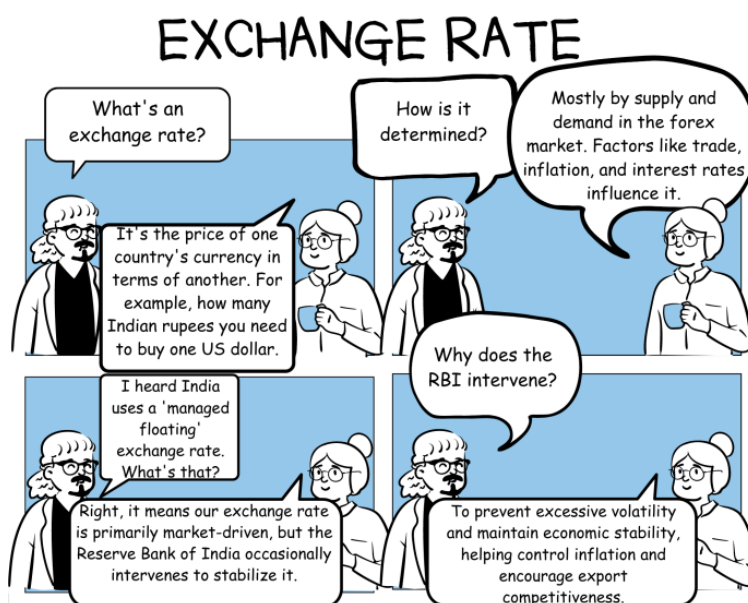
Now, it's important to note that the Reserves Tranche Position is not an actual stock of foreign exchange reserves held by the country. Instead, it represents a country's potential claim on the IMF's resources. So, if India encounters a severe economic situation, it can approach the IMF and request financial assistance up to the limit of its Reserves Tranche Position.

However, it's worth mentioning that utilizing the Reserves Tranche Position comes with certain conditions set by the IMF. These conditions typically involve implementing specific economic and structural reforms to address the underlying issues that led to the balance of payments problem.

### Exchange Rate

Foreign Exchange Rate refers to the rate at which one currency can be exchanged for another currency. It is important for international trade and transactions.

For instance, if someone from India wants to travel to the United States, they need to convert their Indian Rupees into US Dollars at the prevailing exchange rate. Similarly, if a business in India wants to import goods from Japan, they would need to convert their Indian Rupees into



Japanese Yen.

The foreign exchange rate is determined by the foreign exchange market, where currencies are bought and sold. The rates fluctuate constantly due to various factors, including supply and demand, economic conditions, interest rates, political events, and market sentiment.

Governments and central banks may also intervene in the foreign exchange market to influence exchange rates through various measures, such as buying or selling currencies, implementing monetary policies, or imposing capital controls.

## Types of Foreign Exchange Rates

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The three types of exchange rates are:

### Fixed exchange rate system

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The fixed exchange rate system involves the government setting a specific value for its currency in relation to another currency or a fixed standard like gold. The main goal is to maintain stability in foreign trade and capital flows. To achieve this, the government or central bank intervenes in the foreign exchange market, buying or selling foreign currency to maintain the fixed exchange rate.

Under a fixed exchange rate system, the government needs to hold substantial reserves of foreign currencies to ensure it can intervene effectively. This system is also known as the **pegged exchange rate system** because one currency's value is tied to another currency. The fixed value of a currency in terms of another currency or gold is called the parity value.

In the past, two significant methods were used for fixed exchange rates:

1. **Gold Standard System (1870-1914)**: Countries defined the value of their currencies in terms of gold. Each currency had a fixed value based on its gold content. Exchange rates were determined by comparing the gold value of different currencies. For example, if 1 UK Pound equaled 5 grams of gold and 1 US Dollar equaled 2 grams of gold, the exchange rate would be £1 = \$2.5.
2. **Bretton Woods System (1944-1971)**: This system replaced the gold standard and introduced the US Dollar as the primary reserve currency. Countries fixed their currencies to the US Dollar, which was pegged to gold at a fixed price. The value of a currency was indirectly tied to gold through its fixed exchange rate with the US Dollar. The International Monetary Fund (IMF) played a central role in overseeing this system.

The fixed exchange rate system underwent significant changes and eventually gave way to flexible exchange rates in 1971. Flexible exchange rates allow the currency's value to fluctuate freely based on market forces. This system provides more flexibility but also introduces potential exchange rate volatility.

### Merits of Fixed Exchange Rate System:

- It maintains stability in the exchange rate, thereby facilitating international trade.
- It aids the government in regulating inflation within the economy.
- It curbs speculation in the foreign exchange market.
- It encourages capital movement within the domestic market by eliminating uncertainties regarding foreign exchange rates.

- It helps prevent the outflow of capital.

#### Demerits of Fixed Exchange Rate System:

- It demands substantial gold reserves, which can restrict capital or foreign exchange movement.
- It can lead to the currency being either undervalued or overvalued.
- It opposes the principle of free markets.
- Countries adhering to this system may struggle to manage economic downturns or recessions.

### Flexible Exchange Rate System

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The flexible exchange rate system, also known as the **floating rate or free exchange rate system**, is characterized by the exchange rate being determined by the forces of supply and demand in the foreign exchange market. Under this system, the government does not intervene in setting or maintaining the exchange rate.

The rate at which the demand for a foreign currency equals its supply is known as the **equilibrium rate, par rate, or normal rate of foreign exchange**.

The flexibility of the exchange rate allows it to fluctuate freely based on market conditions, such as changes in economic factors, interest rates, inflation rates, and investor sentiment. This system allows for a more market-driven determination of exchange rates.

One advantage of the flexible exchange rate system is that it can help absorb economic shocks and adjust to changing economic conditions. For example, if a country's economy experiences an increase in exports, the demand for its currency may rise, causing an appreciation in the exchange rate.

However, flexible exchange rates can also lead to increased volatility and uncertainty in the currency market. Exchange rate fluctuations can affect import and export prices, inflation, and the competitiveness of domestic industries.

#### Merits of Flexible Exchange Rate System

- In a flexible exchange rate system, the government does not need to maintain reserves.
- It eliminates issues related to the currency being overvalued or undervalued.
- It improves the efficiency in resource allocation.

#### Demerits of the Flexible Exchange Rate System

- It promotes speculation within the economy.
- The economy lacks stability because the exchange rate continuously fluctuates based on demand and supply.
- Coordinating macroeconomic policies becomes challenging under this system.

### Managed Floating Exchange Rate

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A managed floating exchange rate system is a combination of fixed and flexible exchange rate systems, also known as a hybrid system. In this system, the exchange rate is primarily determined by

market forces but is stabilized by the central bank in cases of significant appreciation or depreciation of the domestic currency. India follows a managed floating exchange rate system.

Under a managed floating exchange rate system the central bank maintains reserves of foreign exchange to support the targeted exchange rate and ensure stability.

When a country deliberately manipulates the exchange rate by not adhering to the rules and regulations, it is known as **dirty floating**. However, under a managed floating system, the central bank follows proper regulations and guidelines to influence the exchange rate.

To illustrate how a managed floating exchange rate works, let's consider an example.

- India adopts a managed floating exchange rate system, and the RBI wants to maintain the exchange rate at \$1 = ₹80.
- The RBI sets a small fluctuation range, let's say from 78 to 82, within which no intervention is required.
- If the value of the Indian rupee starts declining below 78 due to excess demand, the RBI intervenes by increasing the supply of rupees. It achieves this by selling rupees for dollars and acquiring more dollars.
- On the other hand, if there is an excess supply of Indian rupees, causing the value to increase above 82, the RBI intervenes by increasing the demand for rupees. It does so by exchanging dollars for rupees and reducing its holdings of dollars.
- Through these interventions, the RBI aims to maintain the exchange rate within the targeted range and stabilize the currency.

The managed floating exchange rate system provides a balance between market-driven exchange rates and the need for stability in the domestic economy.

### Other types of Exchange Rate System

Over time, due to various global economic events, exchange rate systems have evolved. In addition to fixed, flexible, and managed floating exchange rate systems, other types include:

1. **Adjustable Peg System:** This system involves member countries fixing their currency exchange rates against a specific currency for a set period. However, the currency can be repegged before the period ends, either at a lower rate (devaluation) or a higher rate (revaluation).
2. **Wider Band System:** In this system, a member country can adjust its currency's exchange value within a 10 percent range. This flexibility allows the country to devalue or revalue its currency by up to 10 percent to manage Balance of Payments adjustments. For instance, if a country has a surplus in its Balance of Payments, its currency can appreciate by up to 10% from its parity value to correct the imbalance.
3. **Crawling Peg System:** This system is a middle ground between the floating system and the adjustable peg system. A country sets a parity value for its currency and allows minor variations around this value. The parity rate is regularly adjusted based on the country's international reserves, money supply, and price changes.

### Devaluation/Revaluation vs Depreciation/Appreciation

Basis	Devaluation/Revaluation	Depreciation/Appreciation
Meaning	Devaluation/Revaluation includes reduction/increase in the value of domestic currency in terms of foreign currencies by the government under a	Depreciation/Appreciation refers to the decrease/increase in the value of domestic currency in terms of foreign currencies under a flexible exchange rate



	fixed exchange rate system.	system.
<b>Exchange Rate System</b>	Fixed exchange rate system.	Flexible exchange rate system.
<b>Occurrence</b>	It occurs due to the government.	It occurs due to market forces of demand and supply.

Pros of Currency Devaluation

- **Boosts Export Competitiveness:** Devaluation makes a country's exports relatively cheaper in international markets, which can increase demand for its goods and services. This can lead to higher export volumes and potentially stimulate economic growth.
- **Increases Tourism:** Devaluation can make a country a more affordable destination for international tourists, as their currencies can buy more local currency.
- **Reduces Trade Deficit:** Devaluation can help reduce a country's trade deficit by making imports more expensive.
- **Helps Domestic Industries:** Expensive imports encourage consumers to choose locally produced goods, boosting domestic industries and employment.

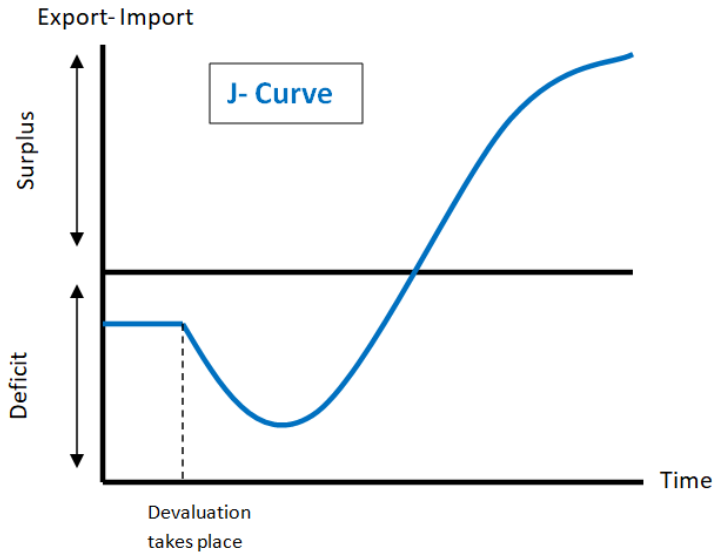
Cons of Currency Devaluation

- **Increases Import Costs:** This can lead to inflationary pressures and higher costs for consumers and businesses that rely on imports.
- **Capital Flight and Investor Uncertainty:** Currency devaluation can lead to capital flight, where investors move their funds out of the country to avoid potential losses. This can result in instability in financial markets and reduced foreign investment.
- **Debt Burden Increases:** If a country has significant external debt denominated in foreign currencies, devaluation can increase the burden of debt repayment. More domestic currency is needed to pay off the debt, which can strain the government's finances.
- **Negative Impact on International Reputation:** Frequent or excessive devaluations may undermine a country's credibility and international reputation. It can raise concerns among investors and affect foreign trade relations.

J-Curve

The J-curve is a concept commonly used in economics to describe the pattern of a country's trade balance following a currency devaluation/depreciation. It suggests that in the short term, after a depreciation of a country's currency, its trade balance may worsen before improving.

This is because there is usually a time lag between the currency depreciation and the response of foreign buyers to take advantage of the cheaper exports. Meanwhile, the cost of imports, such as



raw materials and foreign goods, becomes more expensive due to the weakened rupee.

The combination of higher import costs and a delayed response from export markets often results in a temporary worsening of trade balance immediately after the currency depreciation. This is the "dip" in the J-curve. It creates a pattern that resembles the letter "J" when graphed.

However, as time passes, the effects of the currency depreciation begin to take hold. The increased competitiveness of exports gradually leads to higher demand from foreign buyers. Simultaneously, the higher cost of imports encourages domestic industries to switch to domestically produced alternatives or find ways to become more self-sufficient. These adjustments eventually help improve trade balance, leading to a recovery and an upward swing in the J-curve.

It's important to note that the J-curve effect may not always occur or be immediate. The time it takes for a country's trade balance to improve after a currency depreciation depends on various factors, such as the elasticity of demand for its exports and imports, the competitiveness of its industries, and the overall state of the global economy.

## NEER & REER

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### NEER (Nominal Effective Exchange Rate)

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NEER represents the average value of a country's currency relative to a basket of other currencies. It provides an overview of the currency's overall performance against multiple trading partners. NEER is calculated using the following steps:

**Step 1:** Select a basket of currencies: The RBI determines a basket of currencies that are significant trading partners of India. At present RBI calculates NEER/REER using a 6-currency basket and a 40-currency basket.

**Step 2:** Assign weights to each currency: The RBI assigns weights to each currency based on their importance in India's international trade.

**Step 3:** Calculate the bilateral exchange rates: The RBI collects exchange rate data between the Indian rupee and the currencies in the chosen basket. It then calculates the bilateral exchange rates for each currency.

**Step 4:** Compute the NEER index: The NEER index is calculated by taking a weighted average of the bilateral exchange rates.

The NEER index provides an indication of the competitiveness of a country's currency in the international market. If the NEER index appreciates, it means the country's currency is strengthening against the basket of currencies. Conversely, if the NEER index depreciates, it means the country's currency is weakening against the basket.

### REER (Real Effective Exchange Rate)

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REER is a measure that considers not only nominal exchange rates but also the relative price levels between countries. It adjusts the NEER for inflation differentials to provide a more accurate assessment of a country's international competitiveness. The RBI calculates the REER using the following steps:

**Step 1:** Compute the NEER index as explained earlier.

**Step 2:** Adjust for relative price levels: The RBI takes into account the inflation differential between India and its trading partners. It adjusts the NEER index based on the price levels to calculate the REER. Currently, RBI takes the base year as 2015-16 to calculate inflation.



The REER provides insights into whether a country's currency is overvalued or undervalued in relation to its trading partners, considering both exchange rate movements and inflation differentials.

Both NEER and REER are valuable tools for policymakers and analysts to assess a country's exchange rate dynamics, monitor competitiveness, and make informed decisions regarding monetary and trade policies. The RBI regularly calculates and monitors these indices to gauge the performance of the Indian rupee in the global context.

## Purchasing Power Parity (PPP) exchange rate

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The purchasing power parity (PPP) exchange rate is a way to compare the relative value of currencies between different countries. It takes into account the differences in prices of goods and services across countries and tries to measure the purchasing power of each currency in terms of a common basket of goods. In simpler terms, it means that if you convert the currency of one country into another, the amount you get should enable you to buy the same basket of goods and services in both countries.

Now, let's consider an example using India and the United States to understand PPP exchange rate. Suppose we compare the price of a hypothetical basket of goods that represents a typical set of goods and services that people consume in both countries. Let's assume the price of this basket of goods is \$20 in the United States and ₹1000 in India. This gives us a PPP exchange rate of 1 USD = 50 INR.

The PPP exchange rate serves as a benchmark to compare the purchasing power between countries, but it may not always reflect the actual exchange rate in the foreign exchange market.

For example, let's say the actual exchange rate in the foreign exchange market is 1 USD = 80 INR. In this case, the Indian rupee would be considered undervalued.

## Foreign Direct Investment (FDI)

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Foreign Direct Investment (FDI) refers to the investment made by individuals, companies, or entities from one country into another country, with the intention of establishing a lasting interest and control in the business operations of the foreign country.

### Instruments through which FDI is received in India

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1. **Equity Investments:** Foreign investors buy shares or stakes in Indian companies. This provides them ownership and control over a portion of the company's assets and operations. For example, a multinational company from the United States may invest in an Indian tech startup by purchasing a significant portion of its shares.
2. **Joint Ventures:** Indian company and foreign company come together to form a new entity or collaborate on a specific project. This allows for sharing of resources, technology, expertise, and risks. For instance, a Japanese automaker may form a joint venture with an Indian automobile manufacturer to produce cars specifically for the Indian market.
3. **Mergers and Acquisitions (M&A):** Foreign Company acquires or merges with an existing Indian company. This enables the foreign entity to gain control over the Indian company's assets, market share, and customer base. For example, a British pharmaceutical company may acquire an Indian pharmaceutical company to expand its presence in the Indian market.
4. **Greenfield Investments:** Greenfield investments involve setting up new businesses or establishing new production facilities in India. Foreign investors build new infrastructure, factories, or offices

from scratch. An example would be a Chinese electronics manufacturer establishing a new production plant in India to cater to the growing demand for smartphones.

5. **Financial Investments:** FDI can also flow into India through financial instruments such as foreign portfolio investments (FPI) and foreign institutional investments (FII). These involve investing in financial markets, including stocks, bonds, and other securities. Foreign investors may purchase shares of Indian companies listed on stock exchanges or invest in government securities.

## FDI has had a significant impact on various sectors of the economy

**Manufacturing Sector:** Many multinational companies have set up production units or invested in existing Indian companies. This has led to the transfer of technology, improved infrastructure, and increased job opportunities. For instance, the automobile sector has witnessed substantial FDI, resulting in the establishment of manufacturing plants by companies like Suzuki, Hyundai, and Honda.

**Information Technology (IT) Sector:** Many global technology companies have established their presence in India by setting up development centers or outsourcing operations. This has contributed to the growth of the IT sector, increased exports, and the creation of high-skilled job opportunities. Companies like IBM, Microsoft, and Oracle have made significant investments in India, leading to the development of IT hubs like Bengaluru and Hyderabad.

**Retail Sector:** FDI has had a mixed impact on India's retail sector. In 2012, the Indian government allowed FDI in multi-brand retail, permitting foreign retailers to establish stores in collaboration with Indian partners. This has brought in investment, modern retail practices, and improved supply chains. However, it has also raised concerns about the impact on small traders and traditional mom-and-pop stores.

**Banking and Finance Sector:** International banks and financial institutions have invested in Indian banks or set up their subsidiaries. This has led to increased capital inflows, improved access to financial services, and the introduction of new products and technologies. Examples include Citibank, Standard Chartered, and HSBC, which have established a significant presence in India.

**Telecommunications Sector:** FDI has revolutionized India's telecommunications sector. With the liberalization of the industry, foreign telecom companies have invested in network infrastructure, leading to improved connectivity and lower tariffs. Companies like Vodafone, Bharti Airtel, and Idea (now merged with Vodafone) have made substantial FDI investments, driving the growth of mobile and internet services across the country.

**Renewable Energy Sector:** Foreign investors have shown interest in solar and wind energy projects, contributing to India's goal of increasing the share of renewable energy in its overall energy mix. FDI has brought in capital, expertise, and technology, facilitating the development of renewable energy infrastructure and reducing dependency on fossil fuels.

**Defense Sector:** Foreign Direct Investment (FDI) in India's defense sector has significant impacts, including technology transfer and collaboration with foreign defense companies such as Lockheed Martin, Boeing, and Dassault Aviation. These collaborations bring advanced technologies, enhance indigenous defense capabilities, and facilitate the development of advanced defense systems. Additionally, FDI boosts domestic manufacturing through initiatives like the joint venture between Tata Advanced Systems and Lockheed Martin for manufacturing F-21 fighter jets in India, while also supporting research and development efforts through partnerships like that between Saab and the Indian Institute of Technology-Madras. FDI in defense creates employment opportunities, fosters skill development, and enhances India's export potential by facilitating collaborations and access to global markets.

While India has signed many Memoranda of Understanding (MoUs) to attract FDI, there are still some challenges that hinder its smooth inflow:

1. **Bureaucracy and Regulatory Complexity:** Bureaucratic red tape and complex regulatory procedures in India can delay investment projects and increase operational costs.
2. **Infrastructure Deficiencies:** Insufficient transport, logistics, and power infrastructure can hamper the smooth functioning of businesses.
3. **Complex Tax Structure:** This complexity can create uncertainty for foreign investors.
4. **Inconsistent Policy Environment:** Foreign investors value a stable and predictable policy environment. However, India has witnessed frequent changes in policies and regulations, leading to uncertainty. For example, changes in regulations related to land acquisition, environmental clearances, or foreign ownership limits in certain sectors can disrupt investment plans and create doubts among investors.
5. **Legal and Judicial Challenges:** Lengthy legal proceedings and complex dispute resolution processes can lead to delays in resolving business-related conflicts. This can discourage foreign investors who prefer a transparent and efficient legal framework.
6. **Cultural and Language Barriers:** India's cultural diversity and language variations can pose challenges for foreign investors. Understanding and adapting to local customs, languages, and business practices can be a daunting task, especially for companies with limited experience in the Indian market. Building effective communication channels and local networks becomes crucial to navigate these challenges.

#### Remedial steps taken by Government of India to overcome these challenges

1. **Streamlining Bureaucracy and Regulatory Processes:** The government has made efforts to simplify bureaucratic procedures and streamline regulatory processes to attract more FDI. Initiatives like "Make in India" and "Ease of Doing Business" aim to reduce red tape and provide a conducive environment for foreign investors. For instance, the introduction of online portals and single-window clearance mechanisms has made it easier for investors to obtain permits, licenses, and clearances.
2. **Infrastructure Development:** Government has focused on improving physical and digital infrastructure across the country. Investments have been made in areas such as roads, railways, airports, ports, and power supply. For example, the development of dedicated freight corridors, expansion of port capacities, and initiatives like BharatNet for rural broadband connectivity are aimed at enhancing logistics and communication infrastructure, making it more attractive for foreign investors.
3. **Tax Reforms and Stability:** Introduction of the Goods and Services Tax (GST) aimed to simplify the tax system by replacing multiple indirect taxes with a single unified tax. This reform reduces tax complexities and promotes ease of doing business for foreign investors. Additionally, efforts have been made to bring stability and predictability to the tax regime by reducing retrospective taxation and providing clarity on tax regulations.
4. **Policy Consistency and Transparency:** The government has recognized the importance of policy consistency and transparency in attracting FDI. For instance, the introduction of the National Investment and Manufacturing Zones (NIMZs) and the Special Economic Zones (SEZs) provides a clear policy framework and incentives for investment. The government has also set up dedicated investment promotion agencies, such as Invest India, to facilitate and guide foreign investors through the investment process.
5. **Legal and Judicial Reforms:** Initiatives like the Commercial Courts Act and the establishment of specialized commercial courts aim to expedite the resolution of commercial disputes. Additionally,

the Insolvency and Bankruptcy Code (IBC) provides a time-bound and efficient framework for resolving insolvency issues, which instills confidence in foreign investors regarding the protection of their investments.

6. **Skill Development and Capacity Building:** To address the challenges posed by cultural and language barriers, the government has focused on skill development and capacity building initiatives. Programs like "Skill India" aim to enhance the employability of the workforce and provide training in language skills, cultural sensitivities, and business practices. These efforts enable a better understanding and collaboration between foreign investors and the local workforce.

### Foreign Direct Investment (FDI) vs Foreign Portfolio Investment (FPI)

Aspect	Foreign Direct Investment (FDI)	Foreign Portfolio Investment (FPI)
<b>Definition</b>	Investment made by a foreign entity in a business or project with a lasting interest.	Investment in financial assets such as stocks, bonds, mutual funds, and other securities.
<b>Purpose</b>	Establishing long-term presence and control over operations.	Portfolio diversification and short-term capital gains.
<b>Control</b>	High level of control and management over operations.	Limited or no control over underlying assets or companies.
<b>Investment Horizon</b>	Long-term investment horizon.	Short to medium-term investment horizon.
<b>Investor's Interest</b>	Active involvement in the management and decision-making process.	Passive involvement with limited or no involvement in management.
<b>Volatility</b>	Less volatile as it focuses on long-term stability and gradual returns.	Relatively more volatile due to short-term trading and market fluctuations.
<b>Examples</b>	A foreign company establishing a subsidiary in India to set up a manufacturing plant.	Foreign individuals or institutions investing in Indian stocks or bonds.

### Foreign Portfolio Investment (FPI)

FPI refers to investments made by foreign individuals, non-resident Indians (NRIs), or foreign institutional investors (FIIs) in the financial assets of a country. These financial assets can include stocks, bonds, mutual funds, and other securities. FPI investors typically aim to diversify their investment portfolio and seek short to medium-term capital gains.

FPI can be made in India through various instruments available in Indian Financial Markets. These include equities, debt instruments such as government bonds and corporate bonds, mutual funds that invest in Indian securities, derivatives like futures and options traded on Indian exchanges, and exchange-traded funds (ETFs) that track specific indices or sectors in the Indian market.

FPI can also be made in India through instruments available in overseas markets such as American Depositary Receipts (ADRs), Global Depositary Receipts (GDRs), Masala Bonds.

**American Depositary Receipts (ADRs)** ADRs are negotiable certificates issued by a US bank that represent a specific number of shares in a foreign company. They are traded on US stock exchanges, such as the New York Stock Exchange (NYSE) or the NASDAQ, and provide a way for foreign companies to raise funds and attract international investors without having to list their shares directly on the US exchange. For example, an Indian tech company can issue ADRs that are traded on the NYSE, allowing American investors to buy and sell shares in the company without needing to navigate foreign exchanges.

**Global Depositary Receipts (GDRs)** GDRs operate similarly to ADRs, but they are issued in markets outside of the United States, such as European exchanges like the London Stock Exchange or Asian exchanges like the Hong Kong Stock Exchange. Like ADRs, GDRs represent shares of a foreign company, giving international investors the opportunity to trade these shares on various international exchanges. For instance, an Indian energy company could issue GDRs on the London Stock Exchange, enabling European investors to access and trade the company's shares without directly engaging with Indian markets.

**Masala Bonds** Masala Bonds are rupee-denominated bonds issued by Indian entities in overseas markets, allowing foreign investors to invest in Indian companies or projects. They provide a way for Indian businesses to raise capital from international investors. For instance, an Indian infrastructure company might issue Masala Bonds on the Singapore Stock Exchange, enabling investors around the world to lend money to the company in Indian rupees and earn returns in the same currency.

It's important for FPIs to comply with the guidelines and regulations set by regulatory authorities such as the Securities and Exchange Board of India (SEBI) and the Reserve Bank of India (RBI) when investing through both Indian and foreign exchanges.

## Capital Flight

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Capital flight refers to the large-scale outflow of capital or financial assets from a country. Capital flight is often triggered by factors such as political instability, economic crises, high inflation, currency devaluation, or adverse government policies.

Capital flight can have several negative effects on an economy:

- **Reduced Investment:** With capital flight, the country experiences a decline in domestic and foreign investment.
- **Currency Depreciation:** As investors sell local currency assets to move their funds elsewhere, the demand for the domestic currency decreases, leading to currency depreciation.
- **Financial Instability:** Capital flight can strain the banking sector as depositors withdraw their funds, potentially leading to liquidity shortages and banking crises.
- **Economic Downturn:** The combination of reduced investment, currency depreciation, and financial instability can lead to an overall economic downturn, characterized by lower GDP growth, higher unemployment, and a decline in consumer and business confidence.

## Steps by the Government to Prevent Capital Flight

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- **Macroeconomic Stability:** Maintaining stable fiscal and monetary policies is crucial to instill confidence in investors.
- **Political Stability:** The government can work towards a transparent and predictable regulatory environment, establish the rule of law, and ensure policy consistency to produce a favorable investment climate.

- **Capital Controls:** Governments may impose capital controls to restrict the outflow of capital. These controls can include limits on foreign exchange transactions, restrictions on repatriation of funds, or temporary bans on capital transfers. However, such measures need to be carefully implemented to avoid negative repercussions and potential distortions in the financial system.
- **Investor Protection:** Strengthening investor protection measures and enforcing stringent regulations can enhance investor confidence. This can include transparent dispute resolution mechanisms, strong legal frameworks, and safeguards against expropriation or unfair treatment of investments.
- **Economic Reforms:** Implementing structural reforms that enhance competitiveness, improve the business environment, and attract investments can help prevent capital flight. These reforms may involve simplifying regulatory procedures, reducing bureaucracy, and promoting ease of doing business.

It's important to note that each country's situation is unique, and the effectiveness of measures to prevent capital flight can vary. Governments need to carefully assess the underlying causes of capital flight and tailor their policies accordingly to address the specific challenges faced by their economy.

## Credit Rating Agencies

Credit rating agencies play a crucial role in the financial markets by providing assessments of the creditworthiness of companies, governments, and other entities that issue debt instruments. For example, if a company issues bonds, Credit rating agencies would assess its creditworthiness and assign a rating based on its analysis. Investors can use this rating to determine the risk associated with investing in those bonds.

These credit rating agencies use a similar rating scale to evaluate credit risk, typically ranging from AAA (highest credit quality) to D (default). Credit rating agencies employ a variety of quantitative and qualitative factors to assess creditworthiness. They analyze financial statements, industry trends, cash flow patterns, debt levels, management quality, and other relevant factors.

In India, there are several credit rating agencies that evaluate and assign ratings to borrowers.

Credit Rating Agency	Description	Ownership	Ratings
CRISIL (Credit Rating Information Services of India Limited)	CRISIL is a leading credit rating agency in India that provides credit ratings and research services for corporates, banks, financial institutions, and government entities.	Majority owned by Standard & Poor's Global Inc. (Global Credit rating agency) and listed on stock exchanges.	AAA, AA, A, BBB, BB, B, C, D
ICRA (Investment Information and Credit Rating Agency)	ICRA offers credit ratings, grading, and research services for various entities and debt instruments.	Subsidiary of Moody's Investors Service (Global Credit rating agency).	AAA, AA, A, BBB, BB, B, C, D
CARE (Credit Analysis and Research Limited)	CARE credit ratings and research services for corporates, banks, and government bodies.	Majority owned by financial institutions and listed on stock exchanges.	AAA, AA, A, BBB, BB, B, C, D
Ind-Ra (India)	Ind-Ra offers credit ratings and	Subsidiary of Fitch	AAA, AA, A,

Ratings and Research)	research services for different sectors and debt instruments in India.	Ratings(Global rating agency)	Credit	BBB, BB, B, C, D
Brickwork Ratings	Brickwork Ratings specializes in providing credit ratings for corporates, small and medium enterprises (SMEs), and infrastructure projects.	Independent.		BWR AAA, BWR AA, BWR A, BWR BBB, BWR BB, BWR B, BWR C, BWR D

In India, credit rating agencies are regulated by the Securities and Exchange Board of India (SEBI). SEBI is the primary regulatory authority for the securities market in India and oversees the functioning and operations of credit rating agencies to ensure transparency, reliability, and adherence to regulatory guidelines.

## Currency Convertibility

Currency convertibility refers to the ease with which a country's currency can be exchanged into another currency or used for international transactions. It can be classified into two types: current account convertibility and capital account convertibility.

### Current Account Convertibility

Current account convertibility means that a country's residents can freely convert their domestic currency for international trade in goods and services. It allows individuals and businesses to make payments for imports, receive payments for exports, and conduct transactions related to travel, tourism, and remittances.

In India, there is **full current account convertibility** since the early 1990s. Individuals and businesses can freely engage in international trade, send and receive money for services like tourism, education, medical expenses, and remittances.

However, certain restrictions or regulations may exist to ensure financial stability and prevent illegal activities. For example, the Reserve Bank of India (RBI) monitors and regulates cross-border transfers to manage the balance of payments and safeguard against money laundering.

### Capital Account Convertibility

Capital account convertibility refers to the ability to freely move capital in and out of a country for investment purposes. It involves the unrestricted convertibility of financial assets like stocks, bonds, and real estate. Capital account convertibility allows investors to buy or sell these assets in domestic or foreign markets without significant restrictions.

In India, there is **partial capital account convertibility**. While there have been gradual reforms to liberalize capital flows, there are still some restrictions in place to manage risks and maintain financial stability. The RBI oversees these regulations to prevent excessive volatility in the financial markets and protect the country from sudden capital outflows.

For example, India imposes limits on foreign investment in certain sectors, such as defense, telecommunications, and retail. These limits ensure that foreign capital flows are regulated and aligned



with national priorities. Additionally, the RBI may implement measures to control speculative capital flows that could potentially destabilize the economy.

It's important to note that currency convertibility is a balancing act for any country. While liberalizing convertibility can attract foreign investment and promote economic growth, it also exposes the economy to risks such as currency depreciation, capital flight, and financial instability. Hence, policymakers carefully evaluate the pace and extent of convertibility reforms based on the country's economic conditions and long-term goals.

India has made significant progress in opening up its economy and moving towards greater convertibility over the years. However, the process continues to be gradual and cautious to ensure a stable transition and mitigate any potential risks to the Indian economy.

## Type of trade agreements

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### Preferential Trade Agreement (PTA)

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A Preferential Trade Agreement is an agreement between two or more countries that grants preferential treatment to certain products or services by reducing tariffs or other trade barriers. In a PTA, a **positive list** approach is used, meaning specific products or services are identified for preferential treatment.

Example: India has a Preferential Trade Agreement with Afghanistan.

### Free Trade Agreement (FTA)

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A Free Trade Agreement is a comprehensive agreement between two or more countries to eliminate or reduce trade barriers, including tariffs, quotas, and non-tariff barriers, on most goods and services. In an FTA, a **negative list** approach is often used, meaning the agreement applies to all products and services except those explicitly listed as exceptions.

Example: India has negotiated Free Trade Agreements with several countries and trading blocs. One notable example is the India-Sri Lanka Free Trade Agreement.

### Comprehensive Economic Cooperation Agreement (CECA) / Comprehensive Economic Partnership Agreement (CEPA)

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CECA/CEPA are more extensive form of trade agreement that covers not only trade in goods and services but also various aspects of economic cooperation. CECA/CEPA agreements address regulatory issues, trade facilitation, customs cooperation, investment, intellectual property, and other areas. They aim to deepen economic ties and promote a broader range of economic cooperation between the participating countries. CEPA is more comprehensive than CECA.

Example: India has signed Comprehensive Economic Cooperation Agreements with countries like Singapore and Malaysia.

India has signed Comprehensive Economic Partnership Agreements with countries like South Korea and Japan.

### Customs Union

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A Customs Union is an agreement between countries to establish a common external tariff (CET) on imports from non-member countries. Member countries also eliminate internal trade barriers among



themselves. The goal is to create a unified trade policy toward non-members and promote economic integration among the participating countries.

Example: South American customs union MERCOSUR

## Common Market

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A Common Market goes beyond a customs union by allowing for the free movement of goods, services, capital, and labor among member countries. It establishes a unified economic space and promotes deeper integration. In addition to eliminating trade barriers, a common market often involves harmonization of regulations and standards to facilitate seamless trade.

Example: The European Union (EU) is a prime example of a common market.

## Economic Union

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An Economic Union represents the highest level of integration among countries. It combines the features of a common market and a customs union while coordinating economic policies, such as monetary policy and fiscal policy, among member countries. Economic Union members often share a common currency and work towards economic convergence.

Example: The European Union (EU) is also an example of an economic union.

## Foreign Trade Policy 2023

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**Target:** The FTP 2023 sets a target of \$2 trillion in exports of goods and services by 2030. This means that the government aims to increase the value of India's exports to contribute significantly to the country's economic growth and global trade.

### Approach:

1. **Incentive to Remission:** The policy shifts from providing upfront incentives to a remission and entitlement-based regime. Instead of providing financial incentives, exporters will receive benefits through the reduction or cancellation of duties or taxes on their exports.
2. **Export Promotion through Collaboration:** The policy emphasizes collaboration among exporters, state governments, district administrations, and Indian missions to promote exports. This collaboration aims to create a supportive ecosystem for exporters and enhance their global competitiveness.
3. **Ease of Doing Business:** The FTP 2023 focuses on reducing transaction costs and simplifying export processes. This will be achieved through process re-engineering and automation, where automated IT systems will be implemented for various approvals, making it easier for exporters, especially Micro, Small, and Medium Enterprises (MSMEs), to access export benefits.
4. **Emerging Areas:** The policy addresses emerging areas in trade, such as e-commerce, developing districts as export hubs, and streamlining export control policies. It recognizes the importance of these areas in promoting exports and enhancing India's competitiveness in the global market.

### Major Features:

1. **Process Re-Engineering and Automation:** The FTP 2023 focuses on export promotion and development through the implementation of automated IT systems. These systems will streamline various approval processes, reducing paperwork and time delays. This will benefit exporters, especially MSMEs, by making it easier for them to access export benefits and participate in international trade.

2. **Towns of Export Excellence:** The policy designates four new towns (Faridabad, Mirzapur, Moradabad, and Varanasi) as "Towns of Export Excellence." These towns will receive priority access to export promotion funds under the Market Access Initiative (MAI) scheme. This designation aims to boost exports of specific products like handlooms, handicrafts, and carpets, contributing to the growth of these sectors and generating employment opportunities.
3. **Recognition of Exporters:** Exporter firms will be recognized based on their export performance. They will receive a "status" such as 2-star, 4-star, or 5-star ratings. Recognized exporters will be encouraged to provide training and skills development to interested individuals, contributing to the development of a skilled manpower pool capable of servicing a \$5 trillion economy.
4. **Promoting Export from Districts:** The FTP 2023 aims to promote exports at the district level through partnerships with state governments. The initiative called "Districts as Export Hubs (DEH)" seeks to accelerate the development of grassroots trade ecosystems. District-specific export action plans will be prepared to identify and promote locally available products and services, fostering economic growth at the district level.
5. **Streamlining SCOMET Policy:** The policy places emphasis on strengthening the export control regime, particularly regarding "Special Chemicals, Organisms, Materials, Equipment, and Technologies" (SCOMET) items. This will involve aligning the policy with international treaties and agreements to ensure compliance and promote responsible trade in dual-use items that have potential civilian and military applications.
6. **Facilitating E-Commerce Exports:** The FTP 2023 outlines the intent and roadmap for establishing e-commerce hubs and improving related elements such as payment reconciliation, bookkeeping, returns policy, and export entitlements. This will create a conducive environment for Indian exporters to tap into the potential of e-commerce exports, expand their global reach, and leverage digital platforms for trade.
7. **Facilitation under the EPCG Scheme:** The Export Promotion of Capital Goods (EPCG) Scheme allows the import of capital goods at zero customs duty for export production. The FTP 2023 further rationalizes this scheme, making it more streamlined and beneficial for exporters. Additional schemes like the Prime Minister's Manufactured Imports and Trading Houses (PM MITRA) scheme have been added to claim benefits under the Common Service Provider scheme.
8. **Green Technology Products:** The policy includes specific green technology products such as Battery Electric Vehicles, Vertical Farming equipment, Wastewater Treatment and Recycling systems, Rainwater harvesting systems, and Green Hydrogen. These products will be eligible for reduced Export Obligation requirements under the EPCG Scheme. This aims to promote domestic manufacturing, encourage investment in capital goods, and contribute to sustainable development.
9. **Facilitation under the Advance Authorization Scheme:** The Advance Authorization Scheme (AAS) provides duty-free import of raw materials for manufacturing export items. In the FTP 2023, the scheme has been extended to the export of the Apparel and Clothing sector. This extension aims to promote domestic manufacturing, encourage investment in the textile sector, and boost exports of apparel and clothing items.
10. **Merchanting Trade:** Merchanting trade involves the shipment of goods from one foreign country to another foreign country without touching Indian ports, with the involvement of an Indian intermediary. The FTP 2023 enables merchanting trade of restricted and prohibited items under the export policy. This will allow Indian entrepreneurs to convert financial centers like GIFT City into major merchanting hubs, similar to Dubai, Singapore, and Hong Kong, facilitating international trade and boosting India's role as a global trading hub.
11. **Amnesty Scheme:** The policy introduces a special one-time Amnesty Scheme to address default on Export Obligations. Exporters who have been unable to meet their obligations under the EPCG and Advance Authorization schemes can regularize their cases by paying all customs duties that were

exempted in proportion to their unfulfilled export obligations. The interest payable under this scheme is capped at 100% of the exempted duties. This scheme aims to reduce litigation, foster trust-based relationships, and provide relief to exporters burdened by high duty and interest costs.

These features of the FTP 2023 collectively aim to enhance India's export competitiveness, promote sustainable trade, simplify export processes, leverage emerging areas like e-commerce, and provide support to various sectors for their growth and development in the global market.

## Additional Terms and Concepts

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### *Non-Tariff Barriers*

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Non-tariff barriers are trade restrictions that do not involve imposing tariffs (taxes) on imports or exports. These barriers can include quotas, import licenses, standards, regulations, and other measures that limit or control the amount of trade across borders.

Example: India might impose stringent safety and quality standards on imported fruits. This non-tariff barrier ensures that only fruits that comply with Indian regulations can enter the market.

### *International Investment Position (IIP)*

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The International Investment Position (IIP) is a financial statement that summarizes a country's stock of foreign assets and liabilities at a specific point in time. It shows the difference between the country's investments abroad and foreign investments within the country.

Example: India's IIP might show that as of a particular date, the country has foreign assets worth \$600 billion (e.g., investments in foreign stocks, bonds, and properties) and foreign liabilities worth \$800 billion (e.g., foreign investments in Indian businesses and real estate). The net international investment position would be -\$200 billion, indicating that India owes more to foreign investors than it holds in foreign assets.

### *Trade Embargo*

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A trade embargo is a government-imposed ban on trade with a specific country or a group of countries. It restricts the export or import of certain goods and services to achieve political or economic objectives.

Example: The United States has imposed a trade embargo on Cuba for many years. Under this embargo, most American companies and individuals are prohibited from doing business with Cuban entities. This includes exporting goods to Cuba or importing Cuban products into the United States. The embargo aims to pressure the Cuban government to change its policies and improve human rights conditions.

### *Import Substitution*

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Import substitution is an economic policy aimed at reducing dependency on imported goods by encouraging the production of similar goods domestically. This strategy is often implemented through protective measures such as tariffs, quotas, and subsidies to support local industries.

Example: In the 1950s and 1960s, India adopted an import substitution policy to develop its domestic industries. The government imposed high tariffs on imported goods and provided subsidies and support to local manufacturers. For instance, instead of importing automobiles, India encouraged the production of cars domestically by supporting companies like Hindustan Motors and Premier Automobiles. This policy helped develop India's manufacturing sector, although it sometimes led to inefficiencies and a lack of competition.

## *Offshoring*

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Offshoring is the practice of relocating business processes or services to another country, often to take advantage of lower labor costs, tax benefits, or more favorable economic conditions.

Example: An American technology company decides to move its customer support operations to India. By offshoring these services, the company benefits from lower labor costs and a large pool of skilled English-speaking workers. The customer support team in India handles inquiries and issues from customers around the world.

## *Nearshoring*

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Nearshoring involves relocating business processes or services to a nearby country, often to benefit from similar time zones, cultural similarities, or lower transportation costs, while still reducing expenses compared to domestic operations.

Example: A Canadian clothing manufacturer moves its production to Mexico instead of China. Mexico is closer to Canada, which reduces transportation costs and delivery times. Additionally, the time zone difference is minimal, making communication and coordination easier compared to an overseas operation.

## *Friendshoring*

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Friendshoring, also known as ally-shoring, is the practice of relocating business processes or services to countries that share similar political, economic, or cultural values. This strategy aims to build and strengthen economic ties with allied nations.

Example: A European pharmaceutical company moves some of its supply chain operations to India, a country with which it has strong diplomatic and economic ties. By friendshoring, the company ensures a more stable and secure supply chain, reducing the risk of disruptions due to political tensions with other countries.

## *Dumping*

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Dumping occurs when a country or company exports a product at a price lower than its normal value, often below the cost of production. This practice aims to gain market share by undercutting competitors in the importing country, but it can harm local industries and lead to trade disputes.

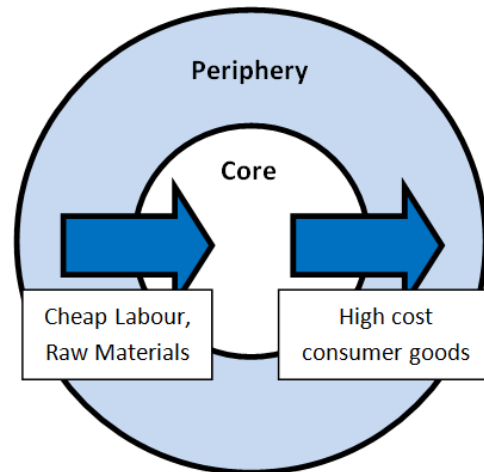
Example: Suppose a Chinese steel manufacturer exports steel to India at a price significantly lower than what it charges in the domestic market or even below its production cost. Indian steel producers cannot compete with these low prices and start losing market share. To protect its domestic industry, the Indian government might impose anti-dumping duties on Chinese steel imports, raising their price to a fair level and ensuring a level playing field for local manufacturers.

## *Dependency Theory*

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Dependency theory is an economic theory that suggests that developing countries (Periphery) are dependent on developed countries (Core) for their economic growth, leading to a situation where the wealth and resources of developing countries flow to developed countries, perpetuating inequality. It argues that the global economic system is structured in a way that benefits wealthy nations at the expense of poorer ones.

Example: Consider a Latin American country that exports raw materials like coffee and bananas to developed countries. The developed countries process these raw materials into finished goods and sell them back at higher prices. The developing country remains dependent on exporting low-value raw materials and importing high-value finished products, leading to a persistent trade imbalance and limited economic growth. This dependency on developed economies for economic activities reinforces the cycle of underdevelopment, as described by dependency theory.



### *Tobin Tax*

The Tobin Tax is a tax proposed on short-term currency transactions to reduce speculation in the foreign exchange market. It was named after economist James Tobin, who suggested it as a way to curb excessive volatility in currency markets.

Example: If a trader buys ₹10 million worth of euros and then sells them shortly after to take advantage of a small price movement, the Tobin Tax would impose a small fee on both the purchase and the sale transactions. This would discourage frequent, speculative trading and potentially reduce the volatility of exchange rates.

### *De-dollarization*

De-dollarization is the process by which a country reduces its reliance on the U.S. dollar for international trade and finance. This can involve increasing the use of the country's own currency or other currencies in global transactions.

Example: India decides to reduce its dependency on the U.S. dollar by increasing the use of the Indian Rupee for international trade. Indian companies start invoicing their exports and imports in Rupees instead of dollars. Additionally, India enters into bilateral trade agreements with countries like Russia and Iran, agreeing to settle trade in Rupees.

### *Dutch Disease*

Dutch Disease refers to the negative consequences that can occur when a country's economy is heavily dependent on the export of natural resources, such as oil or minerals. This often leads to a decline in other sectors, such as manufacturing and agriculture.

Example: Imagine a country discovers large oil reserves and starts exporting oil. This influx of money strengthens the country's currency. However, as the currency becomes stronger, other exports become more expensive and less competitive in the global market. This can lead to a decline in manufacturing and other export-driven industries. The term "Dutch Disease" originated from the Netherlands' economic issues after discovering natural gas in the 1960s.

## *Economic Decoupling*

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Economic decoupling refers to a situation where one economy becomes less dependent on another economy. This can happen when a country or region reduces its reliance on another for trade, investment, or financial flows.

Example: If the U.S. and China were to reduce their economic interdependence, it would be an example of economic decoupling. For instance, if the U.S. starts producing more of its own goods and relies less on imports from China, or if both countries reduce their investments in each other's economies.

## *Trade War*

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A trade war is a situation where countries impose tariffs or other trade barriers on each other in retaliation for certain trade practices. These actions can escalate, leading to higher prices for consumers and strained international relations.

Example: The recent trade war between the United States and China involved both countries imposing tariffs on each other's goods. The U.S. accused China of unfair trade practices and intellectual property theft, leading to tariffs on Chinese imports. China responded with tariffs on American products, affecting various industries and leading to increased costs for businesses and consumers in both countries.

## *Slowbalization*

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Slowbalization refers to the slowdown in the process of globalization. It describes a situation where the integration of economies around the world through trade, investment, and technology is growing at a slower pace than before.

Example: After the 2008 financial crisis, global trade and investment flows grew more slowly compared to the rapid pace seen in the 1990s and early 2000s. Factors like rising protectionism, geopolitical tensions, and the COVID-19 pandemic have contributed to this trend.

## Previous Years Prelims Questions

1.	<p>With reference to the Indian economy, consider the following statements:</p> <ol style="list-style-type: none"> <li>1. An increase in Nominal Effective Exchange Rate (NEER) indicates the appreciation of rupee.</li> <li>2. An increase in the Real Effective Exchange Rate (REER) indicates an improvement in trade competitiveness.</li> <li>3. An increasing trend in domestic inflation relative to inflation in other countries is likely to cause an increasing divergence between NEER and REER.</li> </ol> <p>Which of the above statements are correct?</p> <p>(a) 1 and 2 only          (b) 2 and 3 only          (c) 1 and 3 only          (d) 1, 2 and 3</p>	2022
2.	<p>Which one of the following situations best reflects “Indirect Transfers” often talked about in media recently with reference to India?</p> <p>(a) An Indian company investing in a foreign enterprise and paying taxes to the foreign country on the profits arising out of its investment          (b) A foreign company investing in India and paying taxes to the country of its base on the profits arising out of its investment          (c) An Indian company purchases tangible assets in a foreign country and sells such assets after their value increases and transfers the proceeds to India          (d) A foreign company transfers shares and such shares derive their substantial value from assets located in India</p>	2022
3.	<p>Consider the following statements:</p> <ol style="list-style-type: none"> <li>1. Tight monetary policy of US Federal Reserve could lead to capital flight.</li> <li>2. Capital flight may increase the interest cost of firms with existing External Commercial Borrowings (ECBs).</li> <li>3. Devaluation of domestic currency decreases the currency risk associated with ECBS.</li> </ol> <p>Which of the statements given above are correct?</p> <p>(a) 1 and 2 only          (b) 2 and 3 only          (c) 1 and 3 only          (d) 1, 2 and 3</p>	2022



4.	<p>Consider the following statements:</p> <ol style="list-style-type: none"> <li>1. In India, credit rating agencies are regulated by Reserve Bank of India.</li> <li>2. The rating agency popularly known as ICRA is a public limited company.</li> <li>3. Brickwork Ratings is an Indian credit rating agency.</li> </ol> <p>Which of the statements given above are correct?</p> <p>(a) 1 and 2 only  (b) 2 and 3 only  (c) 1 and 3 only  (d) 1, 2 and 3</p>	2022
5.	<p>Consider the following:</p> <ol style="list-style-type: none"> <li>1. Foreign currency convertible bonds</li> <li>2. Foreign institutional investment with certain conditions</li> <li>3. Global depository receipts</li> <li>4. Non-resident external deposits</li> </ol> <p>Which of the above can be included in Foreign Direct Investments?</p> <p>a) 1, 2 and 3  b) 3 only  c) 2 and 4  d) 1 and 4</p>	2021
6.	<p>Consider the following statements:</p> <p>The effect of the devaluation of a currency is that it necessarily</p> <ol style="list-style-type: none"> <li>1. Improves the competitiveness of the domestic exports in the foreign markets</li> <li>2. Increase the foreign value of the domestic currency</li> <li>3. Improves the trade balance</li> </ol> <p>Which of the above statements is/are</p> <p>a) 1 only  b) 1 and 2  c) 3 only  d) 2 and 3</p>	2021

7.	<p>With reference to the international trade of India at present, which of the following statements is/are correct?</p> <p>(1) India's merchandise exports are less than its merchandise imports.  (2) India's imports of iron and steel, chemicals, fertilisers and machinery have decreased in recent years.  (3) India's exports of services are more than its imports of services.  (4) India suffers from an overall trade/current account deficit.</p> <p>Select the correct answer using the code given below:</p> <p>(a) 1 and 2 only  (b) 2 and 4 only  (c) 3 only  (d) 1, 3 and 4 only</p>	2020
8.	<p>If another global financial crisis happens in the near future, which of the following actions/policies are most likely to give some immunity to India?</p> <p>(1) Not depending on short-term foreign borrowings  (2) Opening up to more foreign banks  (3) Maintaining full capital account convertibility</p> <p>Select the correct answer using the code given below :</p> <p>(a) 1 only  (b) 1 and 2 only  (c) 3 only  (d) 1, 2 and 3</p>	2020
9.	<p>Which one of the following is not the most likely measure the Government/RBI takes to stop the slide of Indian rupee?</p> <p>(a) Curbing imports of non-essential goods and promoting exports  (b) Encouraging Indian borrowers to issue rupee-denominated Masala Bonds  (c) Easing conditions relating to external commercial borrowing  (d) Following an expansionary monetary policy</p>	2019
10.	<p>Consider the following statements</p> <p>(1) Purchasing Power Parity (PPP) exchange rates are calculated by comparing the prices of the same basket of goods and services in different countries.  (2) In terms of PPP dollars, India is the sixth-largest economy in the world.</p>	2019

	<p>Which of the statements given above is/are correct?</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2  (d) Neither 1 nor 2</p>	
11.	<p>In the context of India, which of the following factors is/are contributors to reducing the risk of a currency crisis?</p> <p>(1) The foreign currency earnings of India's IT sector  (2) Increasing the government expenditure  (3) Remittances from Indians abroad</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only  (b) 1 and 3 only  (c) 2 only  (d) 1, 2 and 3</p>	2019
12.	<p>Consider the following statements:</p> <p>(1) Most of India's external debt is owed by governmental entities.  (2) All of India's external debt is denominated in US dollars.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2  (d) Neither 1 nor 2</p>	2019
13.	<p>The term 'Base Erosion and Profit Shifting' is sometimes seen in the news in the context of</p> <p>(a) mining operation by multinational companies in resource-rich but backward areas  (b) curbing of the tax evasion by multinational companies  (c) exploitation of genetic resources of a country by multinational companies  (d) lack of consideration of environmental costs in the planning and implementation of developmental projects</p>	2016
14.	<p>With reference to 'IFC Masala Bonds', sometimes seen in the news, which of</p>	2016

	<p>the statements given below is/are correct?</p> <p>(1) The International Finance Corporation, which offers these bonds, is an arm of the World Bank.</p> <p>(2) They are the rupee-denominated bonds and are a source of debt financing for the public and private sector.</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only (b) 2 only (c) Both 1 and 2 (d) Neither 1 nor 2</p>	
15.	<p>Which of the following best describes the term 'import cover', sometimes seen in the news?</p> <p>(a) It is the ratio of value of imports to the Gross Domestic Product of a country (b) It is the total value of imports of a country in a year (c) It is the ratio between the value of exports and that of imports between two countries (d) It is the number of months of imports that could be paid for by a country's international reserves</p>	2016
16.	<p>The problem of international liquidity is related to the non-availability of</p> <p>(a) goods and services (b) gold and silver (c) dollars and other hard currencies (d) exportable surplus</p>	2015
17.	<p>Convertibility of rupee implies</p> <p>(a) being able to convert rupee notes into gold (b) allowing the value of the rupee to be fixed by market forces (c) freely permitting the conversion of rupee to other currencies and vice versa (d) developing an international market for currencies in India</p>	2015
18.	<p>With reference to Balance of Payments, which of the following constitutes/constitute the Current Account?</p> <p>(1) Balance of trade (2) Foreign assets (3) Balance of invisibles</p>	2014

	<p>(4) Special Drawing Rights</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 only  (b) 2 and 3  (c) 1 and 3  (d) 1, 2 and 4</p>	
19.	<p>The balance of payments of a country is a systematic record of</p> <p>(a) all import and transactions of a during a given period normally a year  (b) goods exported from a country during a year  (c) economic transaction between the government of one country to another  (d) capital movements from one country to another</p>	2013
20.	<p>Which of the following constitute Capital Account?</p> <p>(1) Foreign Loans  (2) Foreign Direct Investment  (3) Private Remittances  (4) Portfolio Investment</p> <p>Select the correct answer using the codes given below.</p> <p>(a) 1, 2 and 3  (b) 1, 2 and 4  (c) 2, 3 and 4  (d) 1, 3 and 4</p>	2013
21.	<p>Which one of the following groups of items is included in India's foreign-exchange reserves?</p> <p>(a) Foreign-currency assets, Special Drawing Rights (SDRs) and loans from foreign countries  (b) Foreign-currency assets, gold holdings of the RBI and SDRs  (c) Foreign-currency assets, loans from the World Bank and SDRs  (d) Foreign-currency assets, gold holdings of the RBI and loans from the World Bank</p>	2013
22.	<p>Consider the following statements :</p> <p>Statement-I: India accounts for 3.2% of global export of goods.</p> <p>Statement-II: Many local companies and some foreign companies operating in</p>	2023

	<p>India have taken advantage of India's 'Production-linked Incentive' scheme.</p> <p>Which one of the following is correct in respect of the above statements?</p> <p>(a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I  (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I  (c) Statement-I is correct but Statement-II is incorrect  (d) Statement-1 is incorrect but Statement-II is correct.</p>	
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### Previous Years Mains Questions

1.	How would the recent phenomena of protectionism and currency manipulations in world trade effect macroeconomic stability of India?	2018
2.	How globalization has led to the reduction of employment in the formal sector of the Indian economy? Is increased informalization detrimental to the development of the country?	2016
3.	Justify the need for FDI for the development of the Indian economy. Why is there a gap between MOUs signed and actual FDIs? Suggest remedial steps to be taken for increasing actual FDIs in India.	2016
4.	The craze for gold in Indians has led to a surge in import of gold in recent years and put pressure on the balance of payments and external value of the rupee. In view of this, examine the merits of the Gold Monetization Scheme.	2015
5.	Foreign direct investment in the defence sector is now said to be liberalized. What influence this is expected to have on Indian defence and economy in the short and long-run?	2014
6.	Discuss the impact of FDI entry into the Multi-trade retail sector on supply chain management in the commodity trade pattern of the economy.	2013
7.	Though India allowed Foreign Direct Investment (FDI) in what is called multi-brand retail through the joint venture route in September 2012, the FDI, even after a year, has not picked up. Discuss the reasons.	2013

## Answers

1.	C	2.	D
3.	A	4.	B
5.	A	6.	A
7.	Cancelled by UPSC	8.	A
9.	D	10.	A
11.	B	12.	D
13.	B	14.	C
15.	D	16.	C
17.	C	18.	C
19.	A	20.	B
21.	B	22.	D





# 18

CHAPTER

INTERNATIONAL  
ECONOMIC  
ORGANISATIONS



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# Chapter 18

## International Economic Organisations

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International economic organizations are entities formed by countries to promote international trade, investment, and economic development. The role of international economic organizations has become increasingly important in today's interconnected world, where the flow of goods, services, and capital across borders has become more prevalent. Overall, international economic organizations play a critical role in shaping the global economic landscape and promoting international cooperation, making them a vital component of the global governance system.

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### Important Institutions

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#### Bretton Woods Institutions

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The Bretton Woods Institutions are two international organizations that were established in 1944 at the United Nations Monetary and Financial Conference held in Bretton Woods, New Hampshire, USA. The main objective of the Bretton Woods Institutions was to promote international economic cooperation and help rebuild the global economy after the devastation of World War II.

The two institutions are:

1. **International Monetary Fund (IMF)** - The IMF was created to oversee the international monetary system and help member countries maintain stable exchange rates and balance of payments.
2. **World Bank** - The World Bank was established to provide long-term financing for reconstruction and development projects in member countries.

India is a founding member of both the IMF and World Bank and has received significant financial assistance from these institutions over the years. For example, during the 1991 balance of payments crisis, India received a loan from the IMF to help stabilize its economy. The World Bank has also provided financing for various projects in India, including the construction of the Mumbai-Pune Expressway and the Jawaharlal Nehru National Urban Renewal Mission (now AMRUT).

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### International Monetary Fund (IMF)

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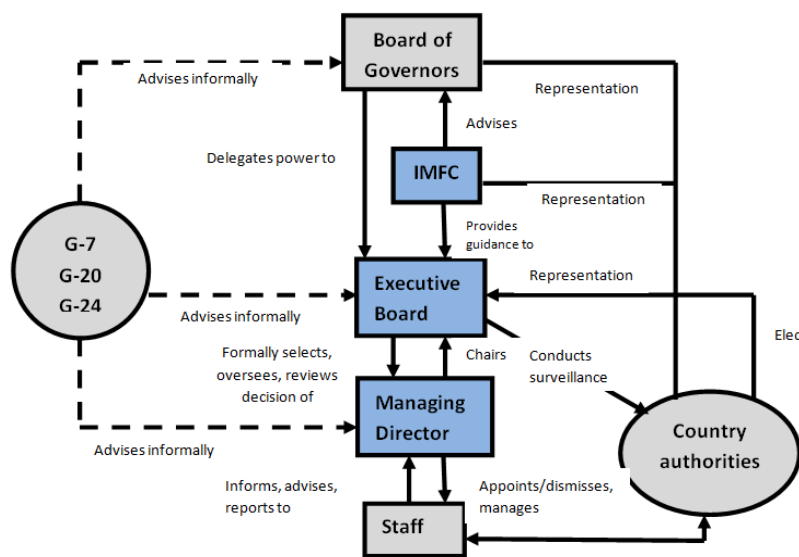
The IMF is a multilateral organization with the aim of promoting international economic cooperation and facilitating international trade.

Established	1944
Membership	190 countries
Headquarters	Washington, D.C., United States

## Objectives

1. **Promoting International Monetary Cooperation:** The IMF aims to promote international monetary cooperation by facilitating exchange rate stability and providing resources to member countries experiencing balance of payments difficulties.
2. **Facilitating International Trade:** The IMF seeks to facilitate international trade by promoting the stability of the international monetary system and ensuring the smooth functioning of the international payments system.
3. **Promoting Economic Growth:** The IMF provides policy advice and technical assistance to member countries to help them achieve sustainable economic growth and reduce poverty.
4. **Providing Financial Assistance:** The IMF provides financial assistance to member countries facing balance of payments difficulties, helping them to address short-term liquidity problems and avoid financial crises.

## IMF Governance Structure



1. **Board of Governors:** The highest decision-making body of the IMF. Each of the IMF's 190 member countries appoints a governor, typically the finance minister or central bank governor.
2. **Executive Board:** Responsible for conducting the day-to-day business of the IMF. It is composed of 24 Executive Directors, who are appointed or elected by member countries or by groups of countries.
3. **Managing Director:** The head of the IMF staff and Chair of the Executive Board. The Managing Director is appointed by the Executive Board for a renewable term of five years.

4. **IMF Staff:** Thousands of employees from all over the world work at the IMF. Their responsibilities are divided among departments that handle economic research, fiscal affairs, monetary and capital markets, and many others.
5. **International Monetary and Financial Committee (IMFC):** The IMFC, comprising finance ministers and central bank governors, is the primary advisory body of the IMF Board of Governors and deliberates on the principal policy issues facing the IMF. The Committee has 24 members, reflecting the composition of the IMF Executive Board. Each member country or group of countries that elects an Executive Director also appoints a member of the Committee.
6. **Development Committee (DC):** A joint committee with the World Bank, advising on critical development issues and on financial resources required to promote economic development in developing countries.

## IMF Quota

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The IMF has member countries from around the world, and each member country has a quota and a corresponding voting power in the organization.

The quota represents the financial contribution made by each member country to the IMF. This contribution determines the amount of resources that the IMF has at its disposal to provide loans to member countries and help stabilize the global financial system. Quotas are determined based on a country's economic size, openness to international trade, and other factors.

For example, a larger economy like the United States would have a larger quota than a smaller economy like Bhutan. As of 2021, the United States has the largest quota in the IMF, with around 16.5%.

Voting power, on the other hand, determines a member country's influence in the decision-making process of the IMF. The number of votes that a member country has is based on their quota, with larger quotas resulting in more voting power.

For example, the United States has the highest voting power in the IMF, with around 16.5% of the total voting power.

It is important to note that decisions made by the IMF require a **supermajority of 85%** of the total voting power. This means that any decision made by the IMF must have the support of the majority of member countries, including those with smaller quotas and voting power.

## Special Drawing Rights (SDR)

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SDR is a type of international reserve asset created by the International Monetary Fund (IMF) to supplement the existing official reserves of member countries. SDRs are not a currency but rather a synthetic currency that represents a basket of currencies of the IMF member countries, including the US dollar, Euro, Japanese yen, British pound sterling, and the Chinese renminbi.

The value of SDRs is determined daily by the IMF based on the market exchange rates of the currencies included in the basket. Member countries can hold SDRs as part of their foreign exchange reserves and use them to settle international transactions or repay their obligations to the IMF.

SDRs are created and allocated to member countries based on their IMF quotas, which are determined by the size of their economies and their role in the international trading system. The allocation of SDRs is typically done in response to a global economic crisis or a significant imbalance in the international monetary system. The most recent allocation of SDRs was done in August 2021, when the IMF allocated \$650 billion in SDRs to its member countries to help them cope with the economic impact of the COVID-19 pandemic.

One of the benefits of SDRs is that they provide member countries with a stable and diversified form of international reserve assets that can be used to supplement their foreign exchange reserves. SDRs can also be used to settle international transactions and are widely accepted by the international financial community. For example, if a country needs to pay for imports, it can use its SDR holdings to purchase the required foreign currency.

## IMF Financing

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IMF financing refers to the financial assistance provided by the International Monetary Fund (IMF) to member countries facing balance of payments difficulties.

IMF financing is typically provided through loan programs that are designed to help countries overcome their balance of payments difficulties. These loans come with certain conditions, also known as conditionality, that the recipient country must meet to qualify for the loan. These conditions are

designed to address the underlying economic issues that led to the balance of payments difficulties and to ensure that the country can achieve sustainable economic growth.

There are several types of IMF financing, including:

1. **Stand-By Arrangement (SBA)**: Short-term support for emerging and advanced economies.
2. **Standby Credit Facility (SCF)**: Similar to SBA, designed for low-income countries.
3. **Extended Fund Facility (EFF)**: Long-term support for structural issues in emerging and advanced economies.
4. **Extended Credit Facility (ECF)**: Equivalent to EFF for low-income countries.
5. **Rapid Financing Instrument (RFI)**: Rapid assistance for urgent balance of payments needs.
6. **Rapid Credit Facility (RCF)**: Rapid assistance for crises in low-income countries.
7. **Flexible Credit Line (FCL)**: Short-term renewable credit line for strong policy countries.
8. **Precautionary and Liquidity Line (PLL)**: For countries with sound frameworks but remaining issues.
9. **Catastrophe Containment and Relief Trust (CCRT)**: Provides grants for debt relief during disasters.
10. **Policy Support Instrument (PSI)**: IMF advice without financial assistance for low-income countries.

IMF financing has been used by many countries over the years, including India. For example, in 1991, India faced a balance of payments crisis, and the government sought assistance from the IMF. The IMF provided a loan of \$2.2 billion to India, which helped the country to stabilize its economy and implement economic reforms that ultimately led to sustained economic growth.

## Criticism

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1. **Conditionality**: One of the main criticisms of the IMF is its conditionality attached to its loans. When a country borrows money from the IMF, it has to agree to certain conditions, including economic reforms, austerity measures, and sometimes privatization. These conditions can be quite strict and can cause significant social and economic disruptions, especially in developing countries. Critics argue that the IMF's conditionality policies often prioritize the interests of the lenders over those of the borrowers.
2. **Focus on macroeconomic stability over development**: The IMF's primary mandate is to promote macroeconomic stability, which is essential for economic growth and development. However, some critics argue that the IMF's focus on macroeconomic stability often comes at the expense of social and human development. They argue that the IMF's policies can exacerbate poverty and inequality, particularly in developing countries.
3. **Voting power and representation**: The IMF's decision-making process is based on a weighted voting system, where developed countries have a larger say in decisions than developing countries. Critics argue that this system is unfair and undemocratic and that it perpetuates the power imbalance between developed and developing countries.
4. **Lack of transparency and accountability**: The IMF has been criticized for its lack of transparency and accountability in its decision-making processes. Critics argue that the organization's policies are often made behind closed doors, without adequate consultation with affected communities or civil society organizations.

## IMF Reforms

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The IMF has been undergoing reforms to adapt to the changing global economic landscape and improve its effectiveness in achieving its mandate.



1. **Governance Reforms:** The governance structure of the IMF was reformed to give emerging market and developing countries a greater say in the decision-making process. The reforms increased the voting power of developing countries and established a more representative Executive Board.
2. **Quota Reforms:** The quota system of the IMF was reformed to reflect the changing economic realities of the world. The reforms increased the quotas of emerging market and developing countries, giving them a greater voice in the decision-making process.
3. **Financial Reforms:** The IMF's financial resources were increased through the expansion of the New Arrangements to Borrow (NAB) and the creation of the Bilateral Borrowing Agreements (BBAs). These reforms aimed to ensure that the IMF has sufficient resources to respond to financial crises.
4. **Lending Reforms:** The IMF's lending toolkit was reformed to provide more flexible and tailored lending programs to member countries. This includes the creation of the Flexible Credit Line (FCL), which provides countries with access to IMF resources without the need for policy conditionality.

These reforms have helped to modernize the IMF and make it more effective in promoting global economic stability. By increasing the voice and participation of emerging market and developing countries, the IMF is better able to reflect the diversity of the global economic landscape and provide more effective policy advice and financial assistance to its members.

For example, the IMF reforms allowed for a more significant role for China and other emerging markets in the decision-making process. This increased representation of developing countries has helped to improve the legitimacy and effectiveness of the IMF in promoting global economic stability.

## World Bank Group

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The World Bank Group is an international organization with the primary objective of promoting economic development in its member countries. It comprises five different institutions, each with a specific focus:

**International Bank for Reconstruction and Development (IBRD):** This institution provides loans, guarantees, and other financial assistance to middle-income and creditworthy low-income countries. These loans are typically used to finance infrastructure projects like roads, bridges, and energy projects.

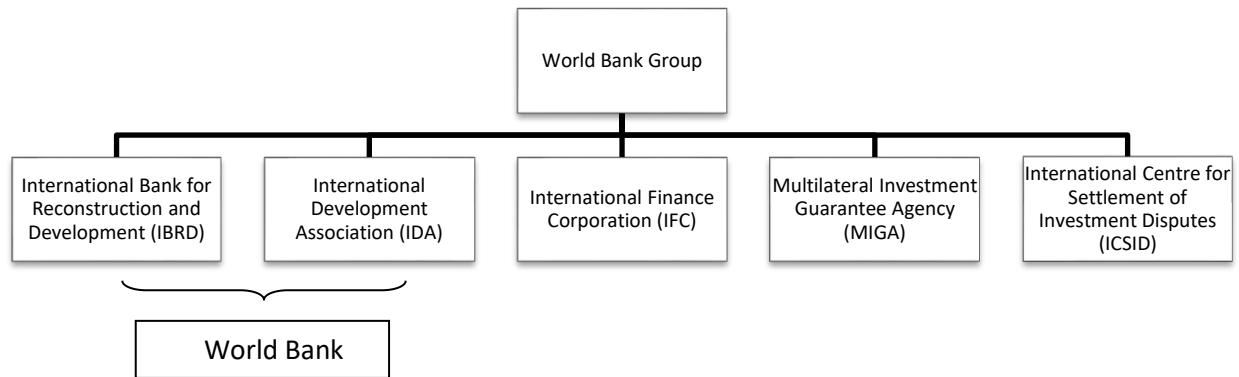
**International Development Association (IDA):** This institution provides low-interest loans and grants to the world's poorest countries. The loans and grants provided by the IDA are typically used to finance projects in areas like education, healthcare, and agriculture.

**International Finance Corporation (IFC):** This institution provides loans, equity, and other financial assistance to private sector companies in developing countries. The IFC's primary objective is to promote private sector development and entrepreneurship in developing countries.

**Multilateral Investment Guarantee Agency (MIGA):** This institution provides political risk insurance and credit enhancement guarantees to investors and lenders in developing countries. The aim of MIGA is to encourage foreign direct investment in developing countries by reducing the risk associated with such investments.

**International Centre for Settlement of Investment Disputes (ICSID):** This institution provides a forum for the settlement of investment disputes between foreign investors and host countries. India is not a member of ICSID.

All these institutions are collectively known as the World Bank Group, however, IBRD and IDA are the two arms which constitute the **World Bank**.



Established	1944
Membership	189 countries
Headquarters	Washington, D.C., United States
Publications	1. World Development Report 2. Global Economic Prospects 4. Poverty and Shared Prosperity Report

## Criticism

1. **Conditionality:** One of the main criticisms of the World Bank is its practice of attaching conditions to its loans. These conditions often require the borrower country to implement specific economic policies, such as privatization or deregulation, as a condition for receiving the loan. Critics argue that these conditions may not be in the best interest of the borrower country and may lead to negative social and environmental impacts.
2. **Governance:** The governance structure of the World Bank has also been criticized for being undemocratic and lacking transparency. While the bank is supposed to represent the interests of all member countries, the majority of the voting power is held by developed countries, which may not always align with the interests of developing countries.
3. **Environmental and Social Impacts:** The World Bank's projects have been criticized for their environmental and social impacts. In some cases, projects have led to deforestation, displacement of indigenous peoples, and destruction of cultural heritage sites. Critics argue that the bank should prioritize environmental and social safeguards to ensure that its projects do not harm local communities or the environment.
4. **Anti-Poverty Strategies:** While the World Bank's primary goal is poverty reduction, its approach to achieving this goal has been criticized for being too focused on economic growth rather than social development. Critics argue that the bank should adopt a more comprehensive approach to poverty reduction that addresses social and economic inequalities.

## Reforms in the World Bank

1. **Focus on Poverty Reduction:** The World Bank has shifted its focus from providing loans for infrastructure projects to promoting poverty reduction and social development. This has led to the

creation of initiatives like the Poverty Reduction Strategy Papers (PRSPs) and the Global Partnership for Education, which aim to support education and health programs in developing countries.

2. **Decentralization:** The World Bank has also undergone a process of decentralization, with the establishment of regional offices in various parts of the world. This has helped to increase the bank's presence in developing countries and improve its understanding of local contexts and needs.
3. **Results-Based Lending:** The World Bank has also shifted towards results-based lending, which links disbursements to the achievement of specific development outcomes. This approach ensures that loans are used effectively and efficiently, and that they contribute to positive development outcomes.
4. **Environmental and Social Safeguards:** The World Bank has introduced environmental and social safeguards to ensure that its projects do not have negative impacts on the environment or local communities. These safeguards require borrowers to conduct environmental and social impact assessments and consult with local communities before undertaking any projects.
5. **Governance Reforms:** The World Bank has also undergone governance reforms to increase transparency and accountability. This includes the introduction of the Independent Evaluation Group (IEG), which assesses the bank's performance and effectiveness, and the Inspection Panel, which provides an independent forum for affected communities to raise concerns about the bank's projects.

### Difference between IMF and World Bank

Basis For Comparison	IMF	World Bank
<b>Meaning</b>	An international organization maintaining the global monetary system	A global organization established to finance and advice the developing nations, in order to make them economically developed
<b>Focus on</b>	Economic Stability	Economic Growth
<b>Organizational Structure</b>	single organization	It has two major institutions, namely International Bank for Reconstruction and Development (IBRD) and the International Development Association (IDA).
<b>Operations</b>	Provides assistance	Facilitates lending
<b>Objective</b>	To deal with all the issues related to the financial sector and macroeconomics.	To lessen poverty and promote the long term development of the economy.

### World Trade Organisation (WTO)

The World Trade Organization (WTO) is an international organization that oversees and regulates global trade among its member countries. The organization was established in 1995, succeeding the General Agreement on Tariffs and Trade (GATT), which was created in 1948.

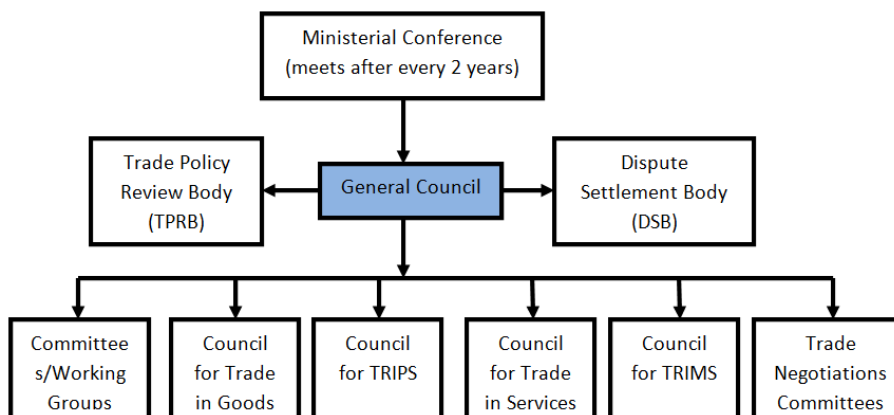
The primary objective of the WTO is to promote free and fair trade among its member countries, which currently 164. It does this by providing a platform for member countries to negotiate and enforce trade agreements, resolve trade disputes, and monitor trade policies and practices. The WTO also provides technical assistance and training to help developing countries participate effectively in the global trading system.

Established 1995  
 Membership 164 member states  
 Headquarters Geneva, Switzerland  
 Publications World Trade Report

## Objectives of WTO

1. **Promoting free trade:** The WTO's primary objective is to promote free and fair trade among its member countries. Free trade refers to the unrestricted flow of goods and services between countries without any barriers or restrictions. By promoting free trade, the WTO aims to increase economic growth and create employment opportunities in member countries.
2. **Ensuring fair competition:** The WTO aims to ensure that international trade is conducted in a fair and transparent manner. It seeks to prevent unfair trade practices like dumping, subsidies, and other forms of protectionism that can harm the interests of other countries. For example, if a country sells its products below the cost of production, it is considered as 'dumping', which can be harmful to domestic producers in importing countries.
3. **Providing a platform for negotiations:** The WTO provides a platform for member countries to negotiate trade agreements, exchange information, and resolve disputes related to international trade. This helps to reduce trade tensions and improve economic cooperation among member countries.
4. **Promoting economic development:** The WTO aims to promote economic development and reduce poverty in developing countries by providing them with access to global markets. The organization provides technical assistance and training to developing countries to help them build their capacity to participate in international trade.
5. **Ensuring environmental protection:** The WTO recognizes the importance of environmental protection and sustainable development in international trade. It seeks to ensure that trade policies are not harmful to the environment and that they promote sustainable development practices.

## Structure of WTO



## Principles of the WTO

1. **Most-favored-nation (MFN) principle:** This principle requires member countries to treat all other members equally in terms of trade. This means that any advantage or concession granted to one member country must also be granted to all other member countries.

2. **National treatment:** This principle requires member countries to treat foreign goods and services no less favorably than their own goods and services once they have entered their markets. In other words, imported goods and services should not be subject to discriminatory treatment.
3. **Prohibition on quantitative restrictions:** The WTO prohibits the use of quantitative restrictions, such as quotas and import/export bans, on trade in goods, except in certain circumstances, such as for reasons of public health or national security.
4. **Transparency:** The WTO requires member countries to be transparent in their trade policies and practices, by notifying other members of any new measures that may affect trade, and by providing information on their trade policies and regulations.
5. **Non-discrimination:** The WTO aims to promote non-discrimination in trade by ensuring that member countries do not engage in discriminatory practices that favor their own goods and services over those of other countries.
6. **Gradual liberalization of trade:** The WTO promotes the gradual liberalization of trade by reducing trade barriers over time, through negotiated agreements among its members.
7. **Special and differential treatment for developing countries:** The WTO provides special and differential treatment for developing countries, recognizing that they may need more time and support to implement WTO agreements and to fully participate in international trade.

## WTO Agreements

### Agreement on Agriculture

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The WTO Agreement on Agriculture is an international agreement that was signed in 1994 as part of the Uruguay Round of multilateral trade negotiations. It aims to reform trade in agricultural goods, reduce trade barriers, and improve the global food security situation.

The WTO Agreement on Agriculture has three main pillars:

1. **Market Access:** This refers to the ability of countries to sell their agricultural products to other countries without facing any restrictions or unfair trade practices. This pillar aims to reduce tariffs and other barriers to trade in agricultural goods.
2. **Domestic Support:** This refers to the subsidies and other forms of financial assistance that governments provide to their own farmers. This pillar aims to limit the amount of subsidies that governments can provide to their farmers, in order to prevent unfair competition and distortion of trade.
3. **Export Competition:** This refers to the practices of exporting countries that may have a negative impact on the agricultural markets of importing countries. This pillar aims to regulate and limit practices such as export subsidies and dumping, which can harm the economies of developing countries.

The WTO Agreement on Agriculture classifies subsidies provided by governments to their farmers into three boxes:

1. **Green Box:** This includes subsidies that are considered minimally trade-distorting, such as those aimed at environmental protection, research and development, and food security.
2. **Blue Box:** This includes subsidies that are more trade-distorting, but are subject to specific conditions. These subsidies must be linked to production-limiting programs, and must not provide support to specific products beyond certain levels.
3. **Amber Box:** This includes subsidies that are considered the most trade-distorting, such as price supports and input subsidies. These subsidies are subject to reduction commitments under the WTO Agreement on Agriculture.

## Impact of the WTO Agreement on Agriculture in India

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India is a major agricultural producer and exporter, but it is also a developing country that relies heavily on agriculture for its economy and food security. The agreement has had both positive and negative impacts on India.

On the positive side, the agreement has helped India increase its agricultural exports by reducing trade barriers in other countries. This has benefited Indian farmers and agribusinesses, and has contributed to the country's economic growth.

However, the agreement has also had negative impacts on India. The domestic support and export competition pillars of the agreement have put pressure on India to reduce its agricultural subsidies, which has been difficult for the country to do. This has led to concerns about the ability of Indian farmers to compete with heavily subsidized farmers in other countries.

Additionally, the classification of subsidies into the three boxes has been a contentious issue for India. The country has argued that many of its subsidies fall into the green box, but other countries have argued that they belong in the more trade-distorting blue or amber boxes. This has led to disputes and negotiations at the WTO.

### Peace Clause

The Peace Clause is a temporary provision that was introduced in 2013 as part of the Bali Package of trade negotiations. It provides developing countries with protection from legal action if their agricultural subsidies exceed the limits set out in the WTO Agreement on Agriculture.

In essence, the Peace Clause allows developing countries to continue providing subsidies to their farmers beyond the limits set out in the agreement, as long as they meet certain conditions. These conditions include ensuring that the subsidies do not harm the trade interests of other countries, and that the subsidies are aimed at addressing food security concerns.

However, the Peace Clause is only a temporary provision, and it is set to expire in 2023. This means that India and other developing countries will need to negotiate new rules around agricultural subsidies in the coming years, which could be challenging given the complexity of the issue and the differing interests of different countries.

## General Agreement on Trade in Services (GATS)

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GATS is an agreement between countries to liberalize trade in services. It was established in 1995 as a part of the World Trade Organization (WTO) and aims to promote the expansion of trade in services between member countries.

### Important aspects of GATS

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*Scope:* GATS covers four modes of supply of services, which include

1. **Cross-border supply:** This mode of supply involves the delivery of a service from one country to another without the service provider physically moving across the border. For instance, an Indian IT firm may provide software development services to a client in the United States over the internet.
2. **Consumption abroad:** This mode of supply occurs when a service consumer travels to another country and consumes a service there. For instance, a Chinese student studying in an Australian university would be considered as a consumer of education services in Australia.

3. **Commercial presence:** This mode of supply involves the establishment of a commercial presence, such as a branch office or subsidiary, in another country to provide services. For instance, a Japanese bank may establish a branch office in India to offer banking services to customers.
4. **Presence of natural persons:** This mode of supply involves the movement of service providers across borders to provide services. For instance, an Australian architect may travel to India to provide architectural services for a construction project.

**National treatment:** This aspect of GATS requires that foreign service providers be treated no less favorably than domestic providers in a member country. This means that foreign service providers should have the same access to markets and be subject to the same regulations as domestic providers.

For example, if a foreign bank wants to provide banking services in India, it should be treated the same as domestic banks in terms of regulatory requirements and market access.

**Most-favored-nation treatment:** This aspect of GATS requires that a member country treat all other member countries equally in terms of trade in services. This means that a country cannot discriminate against another member country by providing more favorable treatment to a third country.

For example, if India gives a particular benefit to the United States in the trade of a particular service, it must also provide the same benefit to all other GATS member countries.

**Transparency:** This aspect of GATS requires that member countries provide information on their services regulations and practices, including measures that affect trade in services, to ensure that other member countries are aware of them.

For example, if India introduces new regulations affecting the provision of telecommunications services, it must notify other member countries and provide them with an opportunity to comment.

**Flexibility:** GATS allows member countries to maintain measures that restrict trade in services for certain reasons, such as protecting public health or national security.

For example, India may restrict the import of certain medical services in order to protect public health.

### Agreement on Trade-Related Investment Measures (TRIMs)

The TRIMs Agreement emerged from the Uruguay Round of negotiations (1986-1994), which led to the establishment of the WTO in 1995. The primary goal is to ensure that investment measures do not restrict or distort international trade. The TRIMs agreement applies to investment measures related to trade in goods (does not cover services).

There are several types of trade related investment measures implemented by governments to regulate foreign investment, including:

1. **Performance requirements:** These require foreign investors to meet certain conditions to receive benefits from the host government, such as tax breaks or subsidies. For example, a government may require that a foreign company invests a certain amount of money in the local economy, hires a certain percentage of local workers, or uses local suppliers.
2. **Local content requirements:** These require foreign investors to use a certain percentage of local materials or products in their operations. For example, a government may require that a car manufacturer use a certain percentage of locally sourced parts in their production process.
3. **Trade balancing requirements:** These policies require foreign investors to balance their imports and exports, either by limiting imports or by increasing exports. For example, a government may



require that a foreign company import a certain amount of goods in order to be allowed to export products from their local operation.

Critics argue that these measures can create barriers to entry for foreign investors and lead to inefficient allocation of resources.

### Key Provisions of Agreement on TRIMS under WTO

1. **National Treatment:** Ensures that member countries treat foreign investments and domestic investments equally. It prohibits discriminatory measures that favor domestic over imported goods.
2. **Elimination of Quantitative Restrictions:** Prohibits measures that limit the quantity of goods that can be imported or exported.
3. **Prohibited TRIMs:**
  - i. **Local Content Requirements:** Mandating that a certain percentage of a product must be produced locally.
  - ii. **Trade Balancing Requirements:** Requiring that the amount of imports be balanced by a corresponding amount of exports.
  - iii. **Foreign Exchange Restrictions:** Imposing restrictions on access to foreign exchange for investment purposes.
  - iv. **Domestic Sales Requirements:** Mandating that certain products must be sold domestically.

The TRIMs agreement allows for certain exceptions to the prohibition of investment measures. These exceptions include measures that promote environmental protection, health and safety, and conservation.

### Trade-Related Aspects of Intellectual Property Rights (TRIPS)

TRIPS is an agreement established by the World Trade Organization (WTO) that sets out minimum standards for the protection of intellectual property rights (IPRs) among its member countries.

The agreement covers a wide range of intellectual property rights, including patents, trademarks, copyrights, and trade secrets. Its main objective is to promote innovation and creativity by providing a legal framework for the protection and enforcement of IPRs.

Here are some important aspects of TRIPS:

1. **Patent protection:** TRIPS requires member countries to provide patent protection for all inventions, including pharmaceuticals, for a minimum of 20 years from the date of filing. This means that a company that invents a new drug can prevent others from making, using, or selling the drug for a certain period of time, which helps to incentivize innovation.

For example, if a pharmaceutical company in India invents a new drug to treat a particular disease, they can apply for a patent and prevent other companies from copying their invention for 20 years. This gives the company a chance to recoup their investment and make a profit from their invention.
2. **Copyright protection:** TRIPS requires member countries to provide copyright protection for a minimum of 50 years from the death of the author. This means that the creator of a literary or artistic work, such as a book or a painting, has exclusive rights to their work for a certain period of time.

For example, if an Indian author writes a book, they can prevent others from copying or distributing their book for 50 years after their death. This gives the author and their heirs an opportunity to earn a living from their creative work.
3. **Enforcement mechanisms:** TRIPS requires member countries to provide effective enforcement mechanisms for IPRs, including civil and criminal remedies. This means that if someone infringes on



an IPR, such as by copying a patented invention or distributing copyrighted material without permission, the owner of the IPR can take legal action to stop the infringement and seek damages.

For example, if an Indian company copies a patented invention belonging to a foreign company, the foreign company can sue the Indian company for patent infringement and seek damages. The Indian court can then order the Indian company to stop infringing on the patent and pay compensation to the foreign company.

## Sanitary and Phytosanitary Measures Agreement (SPS Agreement)

The SPS Agreement is a treaty that was created by the World Trade Organization (WTO) to regulate the use of sanitary and phytosanitary measures in international trade. Sanitary measures are measures designed to protect human and animal health, while phytosanitary measures are measures designed to protect plant health.

The main goal of the SPS Agreement is to ensure that these measures are applied in a way that is not arbitrary or discriminatory, and that they are not used as a way to unfairly restrict trade between countries.

Now, let's take a closer look at some of the important aspects of the SPS Agreement:

1. **Non-discrimination:** The SPS Agreement requires that countries apply their sanitary and phytosanitary measures in a non-discriminatory manner. This means that countries cannot use these measures as a way to favor their own domestic producers over foreign producers.

For example, if a country requires all imported chicken to be tested for certain diseases, it cannot exempt its own domestic chicken from the same requirements. This ensures that all producers are subject to the same standards, regardless of where they are located.

2. **Scientific justification:** The SPS Agreement requires that countries base their sanitary and phytosanitary measures on scientific evidence. This means that measures cannot be arbitrarily imposed, and must be based on sound science.

For example, if a country bans the import of a certain fruit because it believes that the fruit is harmful to human health, it must provide scientific evidence to support this claim.

3. **Equivalence:** The SPS Agreement recognizes that different countries may have different sanitary and phytosanitary measures, but requires that these measures be equivalent. This means that a country's measures must achieve the same level of protection as the measures of another country.

For example, if one country requires imported chicken to be tested for certain diseases, while another country requires imported chicken to be raised in a certain way to prevent the spread of those diseases, the two measures must be considered equivalent in terms of their ability to protect human health.

4. **Transparency:** The SPS Agreement requires that countries be transparent in their use of sanitary and phytosanitary measures. This means that countries must notify the WTO of any new measures they intend to implement, and provide information on the scientific basis for those measures.

For example, if a country intends to ban the import of a certain type of seafood, it must notify the WTO of this intention and provide scientific evidence to support the ban.

## Agreement on Subsidies and Countervailing Measures (SCM Agreement)

The SCM Agreement is a treaty under the World Trade Organization (WTO) that regulates the use of subsidies and countervailing measures in international trade. Its important aspects include:

1. **Prohibition of certain subsidies:** The SCM Agreement prohibits certain types of subsidies that are considered trade-distorting, such as subsidies that are contingent on the use of domestic over imported goods, and export subsidies that directly encourage the export of goods.

2. **Regulation of subsidies that may cause trade distortion:** The agreement also regulates other types of subsidies that may cause trade distortion. For example, subsidies that are specific to certain enterprises, industries, or regions can give them an unfair advantage over their competitors, and can distort trade flows. The agreement limits the use of such subsidies, and requires WTO members to notify and provide information about their subsidy programs.
3. **Provisions for countervailing measures:** The agreement allows WTO members to take countervailing measures against subsidies that cause adverse effects to their domestic industries. The member countries are allowed to impose countervailing duties, which are additional tariffs, on the subsidized imports. The purpose of the countervailing duties is to offset the price advantage created by the subsidies and to restore fair competition.

In summary, the SCM Agreement is an important treaty that aims to promote fair competition and prevent trade distortion by regulating the use of subsidies and countervailing measures in international trade.

## G-20

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The G20 is an informal organization comprising 19 countries and the European Union, representing over two-thirds of the worldwide population, 85% of global GDP, 80% of global investment, and over 75% of global commerce.

Established	1999
Membership	19 countries, the European Union (EU) and the African Union (AU)
Headquarters	No fixed headquarters
Publications	The G20 Monitor

## Origin

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The Asian Financial Crisis in 1997 led to the first meeting with finance ministers and central bank leaders in 1999. In 2008, another financial crisis made people realize that world leaders needed to work together. So, it was decided that G20 leaders would meet once a year.

Also, the finance ministers and central bank leaders from the G20 countries meet twice a year to get ready for these big meetings. These smaller meetings happen at the same time as meetings for the World Bank and the International Monetary Fund.

## Members

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The G20 consists of Argentina, Australia, Brazil, Canada, China, France, Germany, India, Indonesia, Italy, Japan, South Korea, Mexico, Russia, Saudi Arabia, South Africa, Turkey, the United Kingdom, the United States, and the European Union.

Spain isn't officially a member of the G20, it is invited as a permanent non-member invitee.

## Works of G20

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The work of the G20 is divided into two main parts:

1. The "**finance track**" involves meetings of finance ministers, central bank governors, and their deputies from the G20 countries. They meet several times a year to talk about money-related issues and financial rules.

2. The "**Sherpa track**" deals with wider topics like politics, fighting corruption, development, and energy.

Each G20 country has a representative, called a Sherpa, who does the planning and other tasks for their country's leader.

### Structure and Functioning

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- Every year, a different country takes on the role of G20 President. This is done in a way that ensures all regions are represented over time.
- The 19 countries are split into five groups, each with no more than four countries. Each group gets a turn to have one of its countries be the president.
- For example, India is in a group with Russia, South Africa, and Turkey. The G20 doesn't have a permanent office or headquarters.
- Instead, the G20 President is responsible for organizing the G20's plans and responding to global economic events.
- There's also a system called "**TROIKA**". This is where the current G20 President works with the country that was President last year and the country that will be President next year. This helps keep the G20's plans consistent and well-organized.

### G20 Cooperation Areas

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The G20 gets help and advice from several international organizations. These include:

1. The Financial Stability Board (FSB), which looks after financial stability. It was set up by G20 leaders after the global financial crisis.
2. The International Labour Organisation (ILO).
3. The International Monetary Fund (IMF).
4. The Organisation for Economic Co-operation and Development (OECD).
5. The United Nations (UN).
6. The World Bank.
7. The World Trade Organisation (WTO).

The G20 also meets with non-governmental organizations regularly.

Throughout the year, different groups from business (B20), civil society (C20), labor (L20), think tanks (T20), and youth (Y20) organize important events. The results of these events are used to help G20 leaders make decisions.

### Issues Addressed by G20

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The G20 focuses on a broad agenda of global issues; while issues related to the global economy dominate the agenda, other items have become more prominent in recent years, such as:

1. Financial market
2. Tax and fiscal policy
3. Trade
4. Agriculture
5. Employment
6. Energy

7. Fight against corruption
8. Women's advancement in the workplace
9. Sustainable Development Agenda 2030
10. Climate Change
11. Global Health
12. Anti-terrorism
13. Inclusive entrepreneurship

## India's Priorities in G20 Summits

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- Investigating tax evasion to fight corruption.
- Choking terror funds.
- Cutting the Remittances Cost.
- Market access for key drugs.
- Reforms in the World Trade Organisation to enhance its functioning.
- The Paris Agreement's "full implementation".

## Achievements

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1. **Flexibility:** With only 20 members, the G20 can make quick decisions and adapt to changes.
2. **Inclusivity:** Each year, the G20 invites other countries, international organizations, and civil society groups to join. This helps them get a wider range of views on global issues and build agreement on how to deal with them.
3. **Coordinated action:** The G20 has helped strengthen the rules for the world's financial system, including better cooperation between countries.
4. **Crisis response:** During the 2008 financial crisis, the G20 quickly provided emergency money.
5. **Financial oversight:** The G20 works to improve how national financial institutions are monitored, to encourage changes in international financial institutions.
6. **Tax reforms:** The G20 and the OECD have driven changes to the international tax system, including the Base Erosion and Profit Shifting (BEPS) project and the implementation of tax transparency standards.
7. **Better communication:** The G20 brings together the world's most developed and developing countries to discuss how to make decisions in a way that everyone can agree on.

## Challenges

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1. **No Enforcement Mechanism:** The G20 can share information, set goals, and take action together. But unless all members agree, they can't enforce any of this. The only pressure to follow through comes from peer review and public responsibility.
2. **No Legal Bind:** The decisions made by the G20 aren't legally binding. They come from discussions and agreements that lead to declarations, but these declarations can't be legally enforced. The G20 is more of an advisory or consultative group with 20 members.

## Significance

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1. It brings together the world's strongest economies, both developed and developing, to talk about international economic and financial stability.

2. The G20 helps create an environment that supports global growth and development that includes everyone.
3. The G20's work to provide financial stability, promote growth, and prevent and handle crises is very important in helping less developed countries find opportunities and solve problems.

## G-7

Established	1975
Membership	Canada, France, Germany, Italy, Japan, United Kingdom, United States, and the European Union
Headquarters	No formal headquarters. The presidency rotates annually among member countries
Publications	The G7 does not have regular publications

*Origin:* The G7 was formed following the 1973 oil crisis, when the finance ministers of France, West Germany, the US, the UK, and Japan met informally. In 1975, the French President expanded the group to include heads of state for further talks on the global oil crisis.

*Membership:* The G7 consists of seven industrialized democracies: the UK, Canada, France, Germany, Italy, Japan, and the US. Canada joined the group in 1976. The European Union has been a full member since 1981. Russia was a member from 1997 to 2014, during which the group was known as the G8. Russia was removed from G8 in response to its annexation of Crimea.

*Aim:* The G7 aims to provide a forum for the world's leading industrialized nations to discuss and coordinate on key global issues, including economic governance, international security, and energy policy. The group's decisions, while not legally binding, can significantly influence global trends and policies.

*Criticism:* Critics argue that the G7 is outdated and unrepresentative of the world's largest economies, particularly as it excludes emerging powers like China, India, and Brazil. Others criticize the lack of enforcement mechanisms for the group's decisions. The G7 has also been criticized for its focus on the interests of industrialized nations, potentially neglecting the needs and perspectives of developing countries.

## Financial Action Task Force (FATF)

Established	1989
Membership	39 members (37 member jurisdictions and 2 regional organizations)
Headquarters	Paris, France
Publications	Grey and Black Lists

*Origin:* The Financial Action Task Force (FATF) was established in 1989 by the G7 Summit in Paris to combat the growing problem of money laundering. The mandate of the FATF was expanded in 2001 to include efforts to combat terrorist financing.

**Membership:** The FATF is an inter-governmental body with 39 members, including 37 member jurisdictions and 2 regional organizations (the European Commission and the Gulf Cooperation Council). Membership is based on an assessment of the applicant's commitment to the FATF's objectives and standards.

**Aim:** The main objectives of the FATF are to set standards and promote effective implementation of legal, regulatory, and operational measures for combating money laundering, terrorist financing, and other related threats to the integrity of the international financial system.

**Blacklist and Greylist:** The FATF maintains two types of lists to identify countries that have deficiencies in their anti-money laundering and counter-terrorist financing regimes:

1. **Blacklist:** Also known as the "Call for Action" list, it includes countries that the FATF calls on its members to apply counter-measures to protect the international financial system from the ongoing and substantial money laundering and terrorist financing risks emanating from the countries on the list.
2. **Greylist:** Also known as the "Other Monitored Jurisdictions" list, it includes countries that have committed to address identified deficiencies in their regimes to combat money laundering and terrorist financing. While these countries are not subject to the FATF's call for action, they are subject to increased monitoring.

**Achievements:**

1. **Development of Recommendations:** The FATF has developed a series of Recommendations that are recognized as the international standard for combating money laundering and the financing of terrorism and proliferation of weapons of mass destruction.
2. **Increased Compliance:** The FATF monitors countries to ensure they implement the FATF Recommendations effectively and holds countries accountable that do not comply.
3. **Enhanced Global Cooperation:** The FATF has fostered international cooperation among its members and beyond, promoting a coordinated global response to threats to the integrity of the financial system.

**Criticism:** The FATF has been criticized for its "blacklist" and "greylist" approach, which some argue can disproportionately affect poor and developing countries. Critics also argue that the FATF's focus on regulation and enforcement can overlook the root causes of illicit financial flows. Furthermore, some critics argue that the FATF's decision-making process lacks transparency and accountability.

## Asian Development Bank

Established	1966
Membership	68 members (49 from Asia and Pacific). United States: 15.56%, Japan: 15.56%, China: 6.47%, India: 6.36%
Headquarters	Mandaluyong, Philippines
Publications	Asian Development Outlook

The Asian Development Bank (ADB) is an international financial institution that aims to foster economic growth, reduce poverty, and improve living standards in the Asia-Pacific region. ADB has 68 member countries, including India, and works closely with governments, businesses, and communities to promote sustainable and inclusive development.

*Focus areas:*

1. **Infrastructure development:** ADB supports the development of infrastructure projects such as transportation, energy, and water supply systems. These projects help improve connectivity, boost economic activities, and enhance the quality of life for people in the region.
2. **Poverty reduction and social development:** ADB aims to reduce poverty and promote social development by investing in initiatives that improve education, healthcare, and social protection systems.
3. **Climate change and environmental sustainability:** It supports projects that promote clean energy, sustainable natural resource management, and climate resilience to mitigate the impacts of climate change and protect the environment.
4. **Regional cooperation and integration:** ADB encourages regional cooperation and integration among its member countries. It supports initiatives that promote trade, investment, and economic cooperation within the region to foster inclusive and sustainable development.

*Major Criticisms:*

1. **Governance and Accountability:** ADB has faced criticism for its governance and accountability practices. Some argue that decision-making processes within the bank lack transparency and participation from affected communities. Critics suggest that ADB should improve its governance mechanisms to ensure better accountability.
2. **Social and Environmental Impacts:** Critics claim that some ADB-funded projects have had negative social and environmental impacts. They argue that in the pursuit of economic development, the bank should prioritize people's rights, environmental sustainability, and community engagement. ADB has made efforts to address these concerns but still faces challenges in ensuring sustainable development outcomes.

*Projects in India:*

Dedicated Freight Corridor Project: ADB has provided financial assistance for the construction of dedicated freight corridors in India. These corridors aim to improve the efficiency of freight transportation, reduce logistics costs, and boost trade and economic activities.

**New Development Bank**

Established	2014
Membership	Brazil, Russia, India, China, South Africa (BRICS). Each member has one vote
Headquarters	Shanghai, China

The New Development Bank (NDB), also known as the BRICS Development Bank, is a multilateral development bank established by the BRICS countries (Brazil, Russia, India, China, and South Africa) in 2014. It was created with the aim of mobilizing resources for infrastructure and sustainable development projects in emerging economies.

### *Focus Areas:*

1. **Infrastructure Financing:** The NDB focuses on providing financial assistance for infrastructure development projects such as roads, railways, ports, airports, and renewable energy projects. By investing in infrastructure, the NDB aims to promote economic growth and enhance connectivity among member countries.
2. **Sustainable Development:** The bank supports projects that promote sustainable development and address environmental challenges. This includes funding for renewable energy initiatives, waste management systems, and water conservation projects.
3. **Technological Innovation:** The NDB encourages innovation and technology transfer among member countries. It promotes investments in research and development, technological infrastructure, and digital initiatives that can drive economic growth and foster collaboration.

### *Major Criticisms:*

1. **Governance and Decision-Making:** Some critics argue that decision-making within the NDB is dominated by the larger BRICS countries, particularly China. They suggest that smaller member countries may have limited influence over the bank's operations and project selection.
2. **Sustainability Standards:** Critics have raised concerns about the NDB's environmental and social standards. They argue that the bank should enforce stricter guidelines to ensure that funded projects adhere to sustainable practices and do not harm local communities or the environment.

### *Projects in India:*

1. **Renewable Energy:** The NDB provided funding to a solar power project in Rajasthan, India. This initiative aims to expand the use of clean energy sources and reduce greenhouse gas emissions.
2. **Transport Infrastructure:** The bank approved a loan for the Mumbai Metro Rail Project, which aims to enhance the city's transportation system and reduce congestion. This project will contribute to improving connectivity and promoting economic development in the region.
3. **Water Management:** The NDB is supporting a project in Madhya Pradesh, India, focused on improving water supply and sanitation facilities. This initiative aims to enhance access to clean water and sanitation services for local communities, thereby improving their quality of life.

## **Asian Infrastructure Investment Bank (AIIB)**

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The Asian Infrastructure Investment Bank (AIIB) is a multilateral development bank that was established in 2016. The bank was created to provide funding for infrastructure projects in Asia and to support sustainable economic development in the region.

Established	16 January 2016
Membership	103 approved members. China (26.06%), India (7.62%), Russia (6.01%)
Headquarters	Beijing, China

*Focus Areas:* The AIIB finances a wide range of infrastructure projects, including transportation, energy, telecommunications, and water supply. The bank's focus is on sustainable infrastructure development, with an emphasis on projects that support climate change mitigation and adaptation.

### *Issues*

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1. **Competition:** The establishment of AIIB has led to competition with existing development banks like the World Bank and the Asian Development Bank.



2. **Governance:** Some critics have raised concerns about the transparency and accountability of the AIIB's operations and decision-making processes.
3. **Environmental and social standards:** There have been concerns about the AIIB's environmental and social standards, and whether the bank is doing enough to ensure that its investments are sustainable and socially responsible.

### *Projects in India:*

The AIIB has funded the construction of a new metro line in Mumbai, India, which will improve the city's transportation infrastructure and reduce traffic congestion.

Overall, the AIIB has become an important player in infrastructure development in Asia, with a focus on sustainable and climate-friendly projects.

## **Organization of the Petroleum Exporting Countries (OPEC)**

Established	1960
Membership	13 countries: Algeria, Angola, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, the Republic of the Congo, Saudi Arabia, the United Arab Emirates, and Venezuela
Headquarters	Vienna, Austria
Publications	World Oil Outlook

### *Focus area:*

OPEC's primary focus is on coordinating and stabilizing the global oil market, particularly in terms of oil production and prices. OPEC achieves its goals through regular meetings where member countries discuss and decide on production quotas, export levels, and pricing strategies.

### *Example:*

- When global oil prices are too low, OPEC may agree to reduce oil production to decrease the supply in the market. This reduction in supply can help increase prices, benefiting the member countries economically.
- Conversely, if prices are too high and threaten to decrease oil demand, OPEC may decide to increase production to ensure an adequate supply while potentially stabilizing prices.

### *Major criticism:*

- OPEC has faced criticism over the years for its market control and pricing strategies, with some arguing that it manipulates prices for its own benefit.
- Critics claim that OPEC's actions can create artificial shortages or surpluses, leading to price volatility and economic uncertainty in oil-importing countries.
- The organization has also been accused of using its collective power to influence political dynamics and exert undue pressure on non-OPEC oil producers.

### *India's Perspective:*

- India, as one of the largest importers of oil, has expressed concerns about the impact of OPEC's decisions on its economy.

- India has advocated for stable and predictable oil prices that reflect market fundamentals, without excessive interference from OPEC or any other external factors.
- It advocates for a fair balance between the interests of oil producers and consumers.

## Organisation for Economic Co-operation and Development (OECD)

Established	1961
Membership	38 countries
Headquarters	Paris, France

**Origin:** The Organisation for Economic Co-operation and Development (OECD) was established in 1961, evolving from the Organisation for European Economic Co-operation (OEEC), which was created in 1948 to administer the Marshall Plan for the reconstruction of Europe after World War II.

**Aim:** The OECD aims to promote policies that improve the economic and social well-being of people around the world. It provides a forum for governments to work together to share experiences and seek solutions to common problems.

### *Achievements:*

1. **Economic Surveys and Reviews:** The OECD conducts regular reviews of its member countries' economies and selected non-member economies, providing detailed economic analysis and policy recommendations. These surveys are highly regarded and influence policy-making in member countries.
2. **Development of Standards:** The OECD has developed internationally agreed standards in a range of areas, such as taxation, corporate governance, and public sector transparency. For example, its work on Base Erosion and Profit Shifting (BEPS) has been instrumental in combating tax avoidance strategies that exploit gaps and mismatches in tax rules.
3. **Data Collection and Analysis:** The OECD collects and analyzes a vast amount of data, which helps policymakers, researchers, and the public understand global trends and compare policy experiences.
4. **Promotion of Sustainable Development:** The OECD has been a strong advocate for sustainable development, providing analysis and policy recommendations on how to achieve economic growth and development in a sustainable way.

**Criticism:** Critics argue that the OECD is a club of rich countries and its standards and policies may not always be suitable for or take into account the needs of developing countries. It has also been criticized for a lack of transparency and for being influenced by member countries with stronger economies.

### *India's Perspective:*

- India is not a member of the OECD, but it has been an active participant in OECD activities and has had an Enhanced Engagement program with the OECD since 2007.
- India sees the OECD as an important platform to learn from the experiences of developed economies. It also uses its engagement with the OECD to showcase its own economic developments and policy reforms.

- However, India has also expressed concerns about certain OECD standards, such as those related to taxation, arguing that they do not always take into account the needs of developing countries.

### **South Asian Association for Regional Cooperation (SAARC)**

Established	1985
Membership	8 countries: Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka
Headquarters	Kathmandu, Nepal

SAARC is an intergovernmental organization formed in 1985 with the goal of promoting regional cooperation among South Asian countries.

#### *Focus areas:*

- SAARC aims to enhance cooperation in various areas, including trade, investment, agriculture, energy, transportation, tourism, and cultural exchanges.
- SAARC promotes economic integration, poverty alleviation, and socio-cultural development in the region.

#### *Major criticisms:*

- SAARC has faced criticism for its slow progress in achieving its objectives. The organization has often been hindered by political tensions and conflicts among member countries.
- Some critics argue that SAARC has not been successful in addressing key regional issues such as terrorism, border disputes, and regional security challenges.

#### *India's Perspective:*

- India sees SAARC as an important platform for fostering regional cooperation and integration.
- It believes that economic collaboration among South Asian countries can lead to shared prosperity and development in the region.
- India has been actively involved in various initiatives under SAARC, such as the South Asian Free Trade Agreement (SAFTA), which aims to boost regional trade.
- However, India's participation in SAARC has been affected by its strained relations with Pakistan, which has hindered progress and cooperation within the organization.

### **Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC)**

Established	1997
Membership	7 countries (Bangladesh, India, Myanmar, Sri Lanka, Thailand, Nepal, Bhutan)
Headquarters	Dhaka, Bangladesh

#### *Focus Areas:*

The Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation (BIMSTEC) is an international organization involving a group of countries in South Asia and Southeast Asia. The BIMSTEC

member states—Bangladesh, India, Myanmar, Sri Lanka, Thailand, Nepal, and Bhutan—are among the countries dependent on the Bay of Bengal.

Fourteen priority sectors of cooperation have been identified and several BIMSTEC centers have been established to focus on those sectors. The sectors are as follows: Trade & Investment, Transport & Communication, Energy, Tourism, Technology, Fisheries, Agriculture, Public Health, Poverty Alleviation, Counter-Terrorism & Transnational Crime, Environment & Disaster Management, Cultural Cooperation, People-to-People Contact, and Climate Change.

### *Major Criticism:*

BIMSTEC has been criticized for its slow progress due to lack of political will, inadequate resources, and overlapping membership with other regional bodies. There is also criticism that BIMSTEC is being used by India as a tool to bypass Pakistan in regional integration efforts, which could potentially lead to geopolitical tensions.

### *India's Perspective:*

India sees BIMSTEC as a bridge between South Asia and Southeast Asia. It provides India with an opportunity to advance its 'Act East' policy and to integrate more closely with the economies of Southeast and East Asia. India has been actively promoting BIMSTEC as a viable alternative to SAARC (South Asian Association for Regional Cooperation), which has been hampered by India-Pakistan tensions.

## **Association of Southeast Asian Nations (ASEAN)**

Established	1967
Membership	10 countries: Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam
Headquarters	Jakarta, Indonesia

ASEAN is a regional organization comprising ten member countries in Southeast Asia.

### *Background:*

ASEAN was established in 1967 with the signing of the ASEAN Declaration or Bangkok Declaration.

### *Focus areas:*

#### **Economic Integration:**

- ASEAN aims to promote economic cooperation and integration among its member countries.
- It has implemented the ASEAN Economic Community (AEC) initiative, which aims to create a single market and production base within the region.
- This includes the free flow of goods, services, investments, and skilled labor, as well as the reduction of trade barriers and harmonization of economic policies.

#### **Political and Security Cooperation:**

- ASEAN works towards maintaining peace, stability, and security in the region.

- It fosters dialogue, promotes conflict resolution, and encourages cooperation among member countries in dealing with political and security issues.
- ASEAN also engages in collaborations with external partners on security matters.

#### Socio-Cultural Cooperation:

- ASEAN aims to strengthen cultural ties and promote social development in the region.
- It encourages collaboration in various fields, such as education, tourism, human rights, and public health.
- ASEAN organizes events and activities to promote cultural exchange and mutual understanding among member countries.

#### India's point of view:

- India has been actively engaging with ASEAN as part of its "Act East" policy, emphasizing closer ties with Southeast Asia.
- India sees ASEAN as a key partner in promoting economic cooperation, cultural exchange, and regional stability.
- India has been working towards enhancing trade and investment relations with ASEAN countries, including negotiating free trade agreements and participating in ASEAN-led forums such as the East Asia Summit.

### Bank for International Settlements (BIS)

Established	1930
Membership	63 member central banks
Headquarters	Basel, Switzerland

**Origin:** The Bank for International Settlements (BIS) was established in 1930. It was initially created to manage German reparations payments mandated by the 1919 Treaty of Versailles. Over time, its role has evolved to serve as a bank for central banks and a forum for monetary cooperation.

**Membership:** The BIS has 63 member central banks, representing countries from around the world that together account for about 95% of world GDP.

**Aim:** The main goal of the BIS is to promote monetary and financial stability around the world. It does this by serving as a bank for central banks, providing a forum for policy dialogue, conducting research, and providing banking services to central banks and international organizations.

#### Achievements:

1. **Financial Stability:** The BIS has played a key role in promoting financial stability, providing a platform for central banks to exchange information and collaborate on financial and monetary matters.
2. **Basel Accords:** The BIS has been instrumental in the development of the Basel Accords, which provide recommendations on banking laws and regulations to enhance financial stability.
3. **Research and Statistics:** The BIS produces and shares high-quality research and statistics on economic and financial matters, helping to inform policy decisions.

**Criticism:** The BIS has been criticized for its lack of transparency and accountability, as it is not accountable to any national government. Some critics also argue that the BIS's policy recommendations, particularly those related to fiscal austerity and financial deregulation, can contribute to economic inequality and instability.

## World Economic Forum

Established	1971
Membership	World's largest corporations, political leaders, selected intellectuals, and journalists
Headquarters	Cologny, Switzerland
Publications	WEF produces a series of reports including the Global Competitiveness Report, Global Risks Report, Global Gender Gap Report, and others
Annual Meeting in Davos	The WEF's annual meeting in Davos, Switzerland, is a major event where global leaders from various sectors come together to discuss and shape global, regional, and industry agendas.

**Origin:** The World Economic Forum (WEF) was founded in 1971 by Klaus Schwab, a German economist and engineer. It was initially named the European Management Forum and was designed to connect European business leaders to their counterparts in the United States.

**Membership:** The WEF is composed of the world's largest corporations, political leaders, select intellectuals, and journalists. Membership is stratified according to the level of engagement with forum activities, with the highest level of membership requiring an invitation and annual fees of CHF 600,000 (approximately USD 620,000).

**Aim:** The WEF aims to improve the state of the world by engaging business, political, academic, and other leaders of society to shape global, regional, and industry agendas. It serves as a platform for leaders from all sectors of society to come together and discuss issues of global concern.

**Criticism:** Critics argue that the WEF is a gathering of wealthy individuals and corporations that are primarily interested in promoting free trade and globalization, often at the expense of developing economies and the environment. It has also been criticized for its high costs and for being an exclusive club for the world's elite.

**India's Perspective:** India has been an active participant in the WEF. It sees the forum as a platform to showcase its economic potential, attract foreign investment, and engage with global leaders on issues of mutual interest. Indian leaders, including Prime Minister, have attended the annual meeting in Davos to present India's growth story and its role in the global economy.

## Additional Terms and Concepts

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### *Paris Club*

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The Paris Club is an informal group of official creditors, mainly from developed countries, that provides financial services such as debt restructuring and relief to indebted countries. The group meets in Paris, and its goal is to find coordinated and sustainable solutions for countries facing payment difficulties.

**Members:** As of now, the Paris Club has 22 permanent members. These include countries like the United States, United Kingdom, Germany, France, Japan, and Canada.

**Example:** Suppose a developing country, Country A, is struggling to repay its debts to various creditor nations, including France, Germany, and Japan. Country A approaches the Paris Club for help. The Paris Club members meet and agree to restructure Country A's debt by extending the repayment period and possibly reducing the interest rates. This helps Country A manage its debt more effectively and focus on economic recovery.

**India's Status:** India is not a member of the Paris Club but has engaged with the club in the past. India has sometimes been involved in discussions as a creditor nation, especially when its interests align with the goals of the Paris Club regarding debt relief for certain countries.

### *London Club*

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The London Club is an informal group of private creditors, primarily commercial banks, that work together to renegotiate the debt of sovereign states facing financial difficulties. It operates similarly to the Paris Club but involves private sector creditors instead of official government creditors.

**Members:** The London Club does not have a fixed membership. Instead, it comprises various commercial banks that come together on a case-by-case basis to address specific debt restructuring needs. The composition of the club changes depending on the creditors involved in each negotiation.

**Example:** Country B, another developing nation, has significant debt owed to international commercial banks. Due to economic challenges, it cannot meet its repayment obligations. Country B negotiates with the London Club, seeking to restructure its debt. The member banks of the London Club agree to reschedule the debt payments, possibly offering new loans or adjusting interest rates to provide relief to Country B.

**India's Status:** India has not been prominently involved with the London Club, as it primarily deals with sovereign states' debts to commercial banks. India typically engages more directly with multilateral financial institutions like the IMF and World Bank for its financing needs.

### *Washington Consensus*

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The Washington Consensus refers to a set of economic policy recommendations for developing countries, emphasizing free-market principles. It includes policies like trade liberalization, privatization, deregulation, fiscal discipline, and open markets. These recommendations were promoted by institutions based in Washington, D.C., such as the International Monetary Fund (IMF) and the World Bank.

India implemented several reforms aligned with the Washington Consensus, especially during the economic liberalization period of the 1990s. These reforms included reducing trade barriers, liberalizing foreign investment policies, privatizing state-owned enterprises, and deregulating key industries. These changes helped India transition to a more market-oriented economy and achieve significant economic growth.

Critics argue that the Washington Consensus often leads to social inequality and economic instability. The emphasis on rapid privatization and deregulation can result in job losses and reduced public services, disproportionately affecting the poor and vulnerable populations.



## Previous Years Prelims Questions

1.	<p>“Rapid Financing Instrument” and “Rapid Credit Facility” are related to the provisions of lending by which of the following:</p> <ol style="list-style-type: none"> <li>Asian Development Bank</li> <li>International Monetary Fund</li> <li>United Nations Environment Programme Finance Initiative</li> <li>World Bank</li> </ol>	2022
2.	<p>With reference to the “G20 Common Framework”, consider the following statements:</p> <ol style="list-style-type: none"> <li>It is an initiative endorsed by the G20 together with the Paris Club.</li> <li>It is an initiative to support Low Income Countries with unsustainable debt.</li> </ol> <p>Which of the statements given above is/are correct?</p> <ol style="list-style-type: none"> <li>1 only</li> <li>2 only</li> <li>Both 1 and 2</li> <li>Neither 1 nor 2</li> </ol>	2022
3.	<p>With reference to Trade-Related Investment Measures (TRIMS), which of the following statements is/are correct?</p> <ol style="list-style-type: none"> <li>Quantitative restrictions on imports by foreign investors are prohibited.</li> <li>They apply to investment measures related to trade in both goods and services.</li> <li>They are not concerned with the regulation of foreign investment.</li> </ol> <p>Select the correct answer using the code given below:</p> <ol style="list-style-type: none"> <li>1 and 2 only</li> <li>2 only</li> <li>1 and 3 only</li> <li>1, 2 and 3</li> </ol>	2020
4.	<p>India’s ranking in the ‘Ease of Doing Business Index’ is sometimes seen in the news. Which of the following has declared that ranking?</p> <ol style="list-style-type: none"> <li>Organization for Economic Cooperation and Development (OECD)</li> <li>World Economic Forum</li> <li>World Bank</li> <li>World Trade Organization (WTO)</li> </ol>	2016

5.	<p>'Global Financial Stability Report' is prepared by the</p> <p>(a) European Central Bank  (b) International Monetary Fund  (c) International Bank for Reconstruction and Development  (d) Organization for Economic Cooperation and Development</p>	2016
6.	<p>The term 'Regional Comprehensive Economic Partnership' often appears in the news in the context of the affairs of a group of countries known as</p> <p>(a) G20  (b) ASEAN  (c) SCO  (d) SAARC</p>	2016
7.	<p>'European Stability Mechanism', sometimes seen in the news, is an</p> <p>(a) agency created by EU to deal with the impact of millions of refugees arriving from Middle East  (b) agency of EU that provides financial assistance to eurozone countries  (c) agency of EU to deal with all the bilateral and multilateral agreements on trade  (d) agency of EU to deal with the conflicts arising among the member countries</p>	2016
8.	<p>Recently, which one of the following currencies has been proposed to be added to the basket of the IMF's SDR?</p> <p>(a) Rouble  (b) Rand  (c) Indian Rupee  (d) Renminbi</p>	2016
9.	<p>With reference to the International Monetary and Financial Committee (IMFC), consider the following statements :</p> <p>(1) IMFC discusses matters of concern affecting the global economy and advises the International Monetary Fund (IMF) on the direction of its work.  (2) The World Bank participates as an observer in IMFC's meetings.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2</p>	2016

	(d) Neither 1 nor 2	
10.	Which one of the following issues the 'Global Economic Prospects' report periodically?  (a) The Asian Development Bank (b) The European Bank for Reconstruction and Development (c) The US Federal Reserve Bank (d) The World Bank	2015
11.	Which of the following organizations brings out the publication known as 'World Economic Outlook'?  (a) The International Monetary Fund (b) The United Nations Development Programme (c) The World Economic Forum (d) The World Bank	2014

### Previous Years Mains Questions

1.	The China Pakistan Economic Corridor (CPEC) is viewed as a cardinal subset of China's larger 'One Belt One Road' initiative. Give a brief description of CPEC and enumerate the reasons why India has distanced itself from the same.	2018
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### Answers

1.	B	2.	C
3.	C	4.	C
5.	B	6.	B
7.	B	8.	D
9.	C	10.	D
11.	A		



# 19

CHAPTER

PLANNING IN INDIA



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# Chapter 19

## Planning in India

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Planning refers to the process of setting goals, formulating strategies, and making decisions to achieve desired outcomes. In the context of economics, planning plays a crucial role in the overall development of a country's economy. It involves the systematic organization and allocation of resources to achieve economic objectives.

### Significance of Planning in Economic Development

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1. **Resource Allocation:** It ensures that resources are utilized in the most productive and equitable manner, leading to overall economic development.
2. **Economic Stability:** It enables governments to implement policies that reduce economic volatility and ensure sustainable growth.
3. **Industrialization and Diversification:** Planning facilitates the industrialization and diversification of the economy, thereby increasing resilience and long-term growth prospects.
4. **Social Development:** Planning considers social objectives alongside economic goals. It focuses on improving education, healthcare, infrastructure, and social welfare to enhance the well-being and living standards of the population.

### Historical Context

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*Pre-independence economic scenario:* India was under British colonial rule, and the economy was primarily designed to serve British interests rather than promote indigenous industrial development.

The absence of comprehensive planning meant that economic policies and development efforts were not coordinated, leading to inefficiencies and disparities in growth across regions.

### Early efforts towards economic planning in India

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#### Dadabhai Naoroji and the Quest for Economic Justice

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Dadabhai Naoroji, known as the "Grand Old Man of India," played a pivotal role in addressing economic justice during the late 19th century. His book, "Poverty and Un-British Rule in India," published in 1901, shed light on the drain of wealth and economic exploitation faced by Indians under British rule. Naoroji's work laid the foundation for recognizing the need for economic planning to alleviate poverty and uplift the nation.

#### M. Visvesvaraya and the Call for National Planning

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M. Visvesvaraya, an accomplished engineer and statesman, advocated for planned development during his tenure as the Diwan of Mysore from 1912 to 1918. His implementation of development

initiatives in Mysore showcased the effectiveness of systematic planning. In 1934, he formulated a ten year plan for economic development of the country in his book “Planned Economy for India”.

### Influence of Soviet Planning (1928) and Great Depression

The Soviet Union's successful planning experiment in 1928 attracted global attention. The Great Depression of the 1930s affected most countries except the USSR. Indian leaders recognized the potential of planned development after observing the USSR's success.

### Congress Resolution and Provincial Autonomy (1935-1937)

The Government of India Act 1935 introduced provincial autonomy, leading to Congress forming governments in eight provinces. The Congress Working Committee suggested an interprovincial committee to address urgent national reconstruction and social planning issues.

### National Planning Committee (NPC, 1938)

Congress President Subhash Chandra Bose initiated the NPC. Jawaharlal Nehru led the committee, which studied various aspects of India's economy. NPC laid the foundation for coordinated economic planning in India.

### The Bombay Plan and Industrialization (1944)

In 1944, influential industrialists including JRD Tata, GD Birla, Purshottamdas Thakurdas and others proposed the Bombay Plan as a comprehensive strategy for economic development. The plan focused on industrialization, infrastructure development, and social welfare measures. It advocated for a mixed economy, with collaboration between the private sector and state intervention.

### People's Plan

People's plan was drafted by MN Roy. This plan was for ten years period and gave greatest priority to Agriculture. Nationalization of all agriculture and production was the main feature of this plan. This plan was based on Marxist socialism.

### Sarvodaya Plan and the Gandhian Vision

Inspired by Mahatma Gandhi's and Vinoba Bhave's principles, J.P. Narayan championed the Sarvodaya Plan. The plan emphasized non-violence, self-reliance, and equitable distribution of wealth. Cooperative farming and self sufficiency were central to the Sarvodaya Plan's vision for economic development.

These early endeavors laid the foundation for subsequent Five-Year Plans and continue to shape India's economic policies, reflecting the nation's journey towards inclusive and sustainable development.

## Brief overview of India's economic challenges post-independence

After gaining independence in 1947, India faced several immediate economic challenges.

1. At the time of independence, India was grappling with widespread poverty and low levels of economic development. The poverty rate was alarmingly high, with around 70% of the population living below the poverty line.

2. The Indian economy was predominantly agrarian, with the majority of the population engaged in agriculture. However, agricultural productivity was low due to outdated farming techniques, lack of irrigation facilities, and fragmented landholdings.
3. Infrastructure, including transportation, power, and communication networks, was underdeveloped and inadequate. Limited road and rail connectivity hindered trade and economic growth. Access to electricity was limited, with a significant portion of the population lacking reliable power supply.
4. India's industrial sector was underdeveloped, with limited capital and outdated technology. The industrial sector's contribution to GDP was relatively low, at around 8% in 1950.
5. The country relied heavily on imports for essential goods, including machinery and capital goods. Limited foreign exchange earnings from exports put pressure on the balance of payments, leading to trade deficits and a constant struggle to stabilize the currency.

## **Establishment of the Planning Commission**

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In the early years after India gained independence, the need for systematic economic planning was recognized to drive the nation's development and address the challenges inherited from colonial rule. This led to the establishment of the Planning Commission in 1950, which played a crucial role in formulating and implementing Five-Year Plans.

The Planning Commission, under the chairmanship of the Prime Minister, was responsible for coordinating and guiding the process of economic planning at the national level. Its primary objective was to promote balanced and sustainable economic growth, equitable resource allocation, and social justice.

## **Five Year plans**

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### **First Five-Year Plan (1951-1956)**

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The First Five-Year Plan marked the beginning of India's planned economic development. Led by Prime Minister Jawaharlal Nehru, this plan aimed to lay the foundation for rapid industrialization and promote agricultural growth.

The First Plan drew inspiration from the Harrod-Domar model, which emphasized the importance of investment in driving economic growth. However, it incorporated modifications to suit India's specific needs and challenges.

Primary focuses of the First Five-Year Plan was agricultural development. Many irrigation projects were initiated during this period, including the Bhakra, Hirakud and Damodar Valley dams. The First Plan exceeded its growth target, achieving a growth rate of 3.6%, surpassing the initial target of 2.1%. Another notable outcome of the First Five-Year Plan was the establishment of five Indian Institutes of Technology (IITs) in Kharagpur, Mumbai, Chennai, Kanpur, and Delhi.

### **Second Five-Year Plan (1956 - 1961)**

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The Second Five-Year Plan under the leadership of Jawaharlal Nehru, aimed to further propel India's economic development. This plan was based on the P.C. Mahalanobis Model, which emphasized industrialization as a means to achieve rapid growth.

The primary focus of the Second Five-Year Plan was on industrial development. It aimed reduce dependence on imports. The plan emphasized the establishment of heavy industries, such as steel,

chemicals, and machinery. Hydroelectric power projects and five steel plants at Bhilai, Durgapur, and Rourkela were established with the help of the Soviet Union, Britain (the U.K) and West Germany respectively.

While the plan set a target growth rate of 4.5%, it fell short and achieved a growth rate of 4.27%. It also faced criticism from experts who argued that the plan's emphasis on heavy industries came at the expense of agriculture and other crucial sectors. The shortcomings of the Second Five-Year Plan became evident in 1957 when India faced a payment crisis.

Despite these challenges and criticisms, the Second Five-Year Plan did witness progress in certain areas. It saw the establishment of various public sector enterprises, investment in infrastructure development, and the initiation of important projects such as the Bhakra-Nangal Dam.

### Third Five-Year Plan (1961 - 1966)

The Third Five-Year Plan, also known as the 'Gadgil Yojna,' after D.R. Gadgil, the Deputy Chairman of the Planning Commission at that time.

The main objective of the Third Five-Year Plan was to achieve economic self-sufficiency. However, the execution of this plan faced significant challenges due to external factors. During the plan period, India was involved in two wars—the Sino-India war of 1962 and the Indo-Pakistani war of 1965. These conflicts strained the economy, shifting the focus towards the defense industry, the Indian Army, and stabilizing prices due to inflationary pressures.

Unfortunately, the Third Five-Year Plan did not meet its intended targets. The plan faced setbacks primarily due to the impact of the wars and drought conditions in certain regions. For the first time India resorted to borrowing from IMF. Rupee value devalued for the first time in 1966. The target growth rate was set at 5.6%, but the achieved growth rate was only 2.4%.

### Plan holidays (1966- 1969)

During the period from 1966 to 1969, the Indian government declared a series of annual plans known as "Plan Holidays." These plan holidays were introduced as a response to the failure of the Third Five-Year Plan, primarily due to the Indo-Pakistani war and the Sino-India war.

The focus was placed on addressing the immediate economic challenges faced by the country. The annual plans during the plan holidays gave equal importance to both agriculture and its allied sectors, as well as the industrial sector. In an effort to bolster the country's exports, the government decided to devalue the Indian rupee. Devaluation made Indian goods more competitive in international markets by lowering their prices relative to other currencies.

The plan holidays were a departure from the conventional long-term planning approach, reflecting the need for flexibility and adaptability during a period of economic instability and geopolitical tensions.

### Fourth Five-Year Plan (1969 - 1974)

The Fourth Five-Year Plan under the leadership of Prime Minister Indira Gandhi, aimed to achieve two main objectives: sustainable growth with stability and progressive self-reliance.

During this plan period, several significant developments took place. One notable action was the nationalization of 14 major Indian banks, which aimed to strengthen the banking sector and promote financial inclusivity. Additionally, the Green Revolution was initiated to increase agricultural productivity and address food shortages. The period also witnessed the Indo-Pakistani War of 1971 and the Bangladesh Liberation War.

Another important focus of the Fourth Five-Year Plan was the implementation of family planning programs. The government aimed to control population growth and promote reproductive health and family welfare.

However, despite these efforts, the Fourth Five-Year Plan did not achieve its targets. The plan's growth rate fell short, reaching only 3.3% instead of the intended 5.6%. The Indo-Pakistani War of 1971 and the Bangladesh Liberation War strained the economy, diverting resources and attention away from developmental goals. Additionally, other economic factors such as rising oil prices, inflation, and internal political instability also posed challenges to the plan's implementation.

### Fifth Five-Year Plan (1974 - 1978)

The Fifth Five-Year Plan aimed to address various socio-economic challenges and promote inclusive growth in India.

During this plan period, one of the primary objectives was the eradication of poverty, as reflected in the slogan "Garibi Hatao" (Remove Poverty). Efforts were made to uplift marginalized sections of society through targeted policies and programs.

Employment generation and social justice were also significant priorities during the Fifth Five-Year Plan. The government launched the Twenty-point Program in 1975, which aimed to address various socio-economic issues such as unemployment, housing, education, and healthcare. The Minimum Needs Programme (MNP) was introduced to provide essential services and infrastructure in rural areas. India went through the "Emergency" period from 1975 to 1976.

Despite challenges such as the global oil crisis and economic instability, the Fifth Five-Year Plan achieved relative success. It surpassed its growth target, achieving a growth rate of 4.8% compared to the intended 4.4%. However, the Fifth Five-Year Plan was terminated prematurely in 1978 by the newly elected government led by Morarji Desai.

### Rolling Plan (1978-1980)

The Rolling Plan was introduced as an interim planning approach after the termination of the Fifth Five-Year Plan, with the intention of providing flexibility and adaptability to India's economic planning process.

Under the Rolling Plan, three types of plans were introduced. Firstly, there was the plan for the current year, which focused on the annual budget and short-term goals. Secondly, there was a plan for a fixed number of years, ranging from 3 to 5 years, which aimed to address medium-term objectives. Lastly, a perspective plan for long-term goals, spanning 10, 15, or 20 years, was also formulated.

The Rolling Plan offered certain advantages over the conventional Five-Year Plans. It allowed for the adjustment of targets and the flexibility to respond to changing economic conditions. Projects, allocations, and policies could be revised annually based on the prevailing circumstances, which was seen as a positive aspect of the plan.

However, the Rolling Plan also had its drawbacks. The frequent amendments to targets and plans could create difficulties in achieving the desired outcomes and lead to instability in the Indian economy.

Due to these concerns and the need for a more structured and comprehensive approach to planning, the Rolling Plan was rejected by the Indian National Congress in 1980. Instead, a new Sixth Five-Year Plan was introduced to provide a more cohesive and focused framework for economic development.

## Sixth Five-Year Plan (1980 - 1985)

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The Sixth Five-Year Plan under the leadership of Prime Minister Indira Gandhi, aimed to foster economic liberalization, eradicate poverty, and achieve technological self-reliance in India.

It recognized the importance of capital investment and infrastructure development as drivers of economic progress.

One of the key targets of the Sixth Five-Year Plan was to achieve a growth rate of 5.2%. However, the plan surpassed this target and achieved a growth rate of 5.7%.

During the Sixth Five-Year Plan, efforts were made to promote industrialization, enhance agricultural productivity, and invest in key sectors such as energy, infrastructure, and education. The National Bank for Agriculture and Rural Development (NABARD) was established for development of rural areas in 1982. The plan also focused on improving healthcare services, expanding access to education, and strengthening social welfare programs.

The Sixth Five-Year Plan marked a significant step towards economic liberalization and self-reliance. This was the end of Nehruvian socialism.

## Seventh Five-Year Plan (1985 - 1990)

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The Seventh Five-Year Plan under the leadership of Prime Minister Rajiv Gandhi, focused on achieving self-sufficiency in the Indian economy, generating productive employment opportunities, and upgrading technology.

The plan placed significant emphasis on accelerating food grain production to meet the growing demands of the population.

Another key objective of the Seventh Five-Year Plan was to increase employment opportunities and raise productivity. Efforts were made to promote labor-intensive industries and enhance skill development programs to meet the demand for skilled manpower.

The plan also marked a shift in the approach towards the private sector, giving it priority over the public sector for the first time. This change aimed to foster entrepreneurship, attract investments, and stimulate economic growth through private enterprise.

Despite economic challenges and social unrest during this period, the Seventh Five-Year Plan achieved remarkable success. It exceeded its growth target of 5.0% and recorded a growth rate of 6%.

## Annual Plans (1990-91 & 1991-92)

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Due to the volatile political situation at the center, the Eighth Five-Year Plan could not be implemented as scheduled. Instead, two annual plans were formulated to address the economic challenges and ensure some degree of continuity in planning.

These annual plans aimed to address immediate economic concerns and mitigate the impact of the delay in implementing the Eighth Five-Year Plan.

## Eighth Five-Year Plan (1992 - 1997)

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The Eighth Five-Year Plan under the leadership of Prime Minister V. Narasimha Rao, aimed to prioritize the development of human resources, including employment, education, and public health.

In 1991, India faced a crisis in foreign exchange (forex) reserves, left with reserves of only about US\$1 billion. During this plan period, the government launched the New Economic Policy of India, which aimed to liberalize and reform the Indian economy. The policy introduced measures such as

deregulation, privatization, and liberalized foreign investment to stimulate economic growth and attract global participation. India became a member of the World Trade Organization on 1 January 1995.

The Eighth Five-Year Plan witnessed several notable economic outcomes. Rapid economic growth was achieved, with the highest annual growth rate recorded thus far at 6.8%. The plan also saw improvements in trade and current account deficits.

One remarkable aspect of the Eighth Five-Year Plan was the decline in the share of public sector investment, which accounted for about 34% of total investment. This reflected the emphasis on encouraging private sector participation and reducing the government's role in the economy.

### Ninth Five-Year Plan (1997 - 2002)

The Ninth Five-Year Plan under the leadership of Prime Minister Atal Bihari Vajpayee, had the main objective of achieving "Growth with Social Justice and Equality." It was launched in commemoration of India's 50th year of independence.

Despite its ambitious goals, the Ninth Five-Year Plan fell short of its growth target of 6.5%. It achieved a growth rate of 5.6%, which was lower than anticipated. Several factors contributed to this outcome, including the impact of global economic fluctuations and domestic challenges such as policy implementation issues, infrastructure bottlenecks, and regional disparities.

Although the plan did not meet its growth target, it still made significant contributions in various sectors. The Ninth Five-Year Plan witnessed the launch of key policy initiatives such as the National Highway Development Program, the Pradhan Mantri Gram Sadak Yojana (PMGSY) for rural road connectivity, and the Sarva Shiksha Abhiyan (Education for All) program.

### Tenth Five-Year Plan (2002 - 2007)

The Tenth Five-Year Plan was implemented under the leadership of both Prime Ministers Atal Bihari Vajpayee and Manmohan Singh. The primary objective of this plan was to double India's per capita income within a decade, with the goal of reducing the poverty ratio to 15% by 2012.

Despite the ambitious targets, the Tenth Five-Year Plan fell slightly short of its growth target. It achieved a growth rate of 7.7%, which, although substantial, was slightly below the intended 8.1%. Various factors contributed to this outcome, including global economic uncertainties and domestic policy challenges.

The plan prioritized infrastructure development, with a particular focus on roads, railways, power generation, and telecommunication networks. Additionally, the plan emphasized the importance of inclusive growth and social welfare programs. Initiatives such as the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) were launched to provide employment opportunities to rural households and alleviate poverty.

### Eleventh Five-Year Plan (2007 - 2012)

The Eleventh Five-Year Plan under the leadership of Prime Minister Manmohan Singh, focused on the theme of "rapid and more inclusive growth." The plan was prepared by economist C. Rangarajan and aimed to address the challenges of poverty, unemployment, and regional disparities while achieving a high and sustainable growth rate.

Despite the global economic slowdown and other challenges, the Eleventh Five-Year Plan achieved a commendable growth rate of 8%. While it fell slightly short of the targeted 9% growth, it still marked a significant achievement given the prevailing economic conditions.



## Twelfth Five-Year Plan (2012 - 2017)

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The Twelfth Five Year Plan aimed to achieve "Faster, More Inclusive, and Sustainable Growth" for the country. The key focus areas of the plan included economic development, poverty reduction, social inclusion, and environmental sustainability.

## India's shift towards market-oriented reforms in the 1990s

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### India's economic situation in the early 1990s

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**Slow Economic Growth:** India's economy was growing at a sluggish pace. The traditional socialist economic model had led to inefficiencies, low productivity, and a lack of competitiveness, hindering the country's growth potential.

**Fiscal Imbalance:** High government spending, coupled with subsidies and welfare programs, resulted in a strain on public finances and a crowding out of private investment.

**Inefficient Public Sector:** The public sector, which played a dominant role in various industries, suffered from inefficiencies, overstaffing, and lack of accountability. State-owned enterprises faced financial losses, low productivity, and were unable to keep pace with global competition.

The immediate reasons that compelled India to undertake market-oriented reforms in the 1990s:

1. **Balance of Payments Crisis:** India was facing a severe shortage of foreign exchange reserves, which threatened the country's ability to meet its international payment obligations.
2. **Liberalization Wave:** The global economic landscape was witnessing a wave of liberalization and globalization, with countries opening up their economies and embracing market-oriented policies. India recognized the need to align itself with these global trends to tap into international markets and attract foreign capital.
3. **External Pressure:** International financial institutions, such as the International Monetary Fund (IMF) and the World Bank, exerted pressure on India to undertake structural reforms as a condition for financial assistance and loans. This external pressure acted as a catalyst for India to initiate market-oriented reforms.

## Overview of liberalization, privatization, and globalization policies

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In the early 1990s, India introduced a set of policies known as liberalization, privatization, and globalization (LPG) to transform its economy and integrate with the global market.

### Liberalization

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1. **Reduction of import tariffs:** India gradually lowered import duties to promote international trade and open up the domestic market. For example, the average import duty was reduced from around 85% in the early 1990s to around 30% by the mid-1990s.
2. **Foreign direct investment (FDI) liberalization:** Restrictions on foreign investment were relaxed, allowing greater foreign participation in key sectors. For instance, sectors like telecommunications, automobiles, and insurance were opened up to FDI, leading to the entry of international companies and increased investments.



3. **Liberalization of the banking sector:** Private and foreign banks were permitted to operate in India, breaking the monopoly of public sector banks. This led to increased competition and improved banking services.
4. **Interest rate liberalization:** The government moved towards market-determined interest rates, allowing banks to set their own lending and deposit rates.
5. **Capital market reforms:** The Securities and Exchange Board of India (SEBI) was established to regulate and develop the capital market. Measures such as the introduction of electronic trading and the liberalization of foreign institutional investments (FIIs) were implemented.

### Privatization

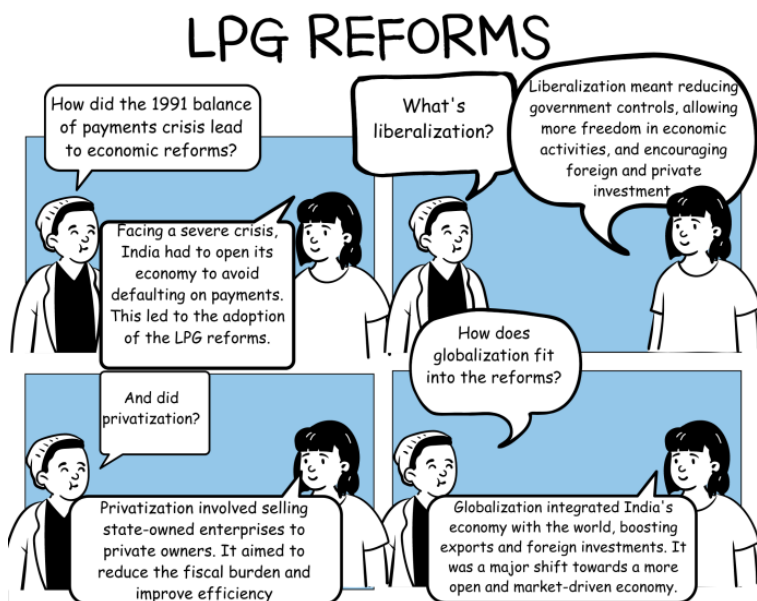
1. **Disinvestment of public sector enterprises:** The government began selling off its stake in state-owned enterprises to reduce the role of the public sector and encourage private investment. For example, companies like Maruti Udyog (automobiles) and Bharat Aluminium Company (BALCO) were partially or fully privatized.
2. **Deregulation of industries:** Licensing requirements and regulations were eased or abolished to foster competition and promote entrepreneurship. Industries like telecommunications, aviation, and banking witnessed significant deregulation, allowing for increased private sector participation.

### Globalization

1. **Current account convertibility:** India gradually relaxed restrictions on the convertibility of the rupee for current account transactions, facilitating international trade and capital flows.
2. **Reduction of import licensing:** Import licensing requirements were simplified, reducing bureaucratic hurdles and facilitating imports.

### Outcomes of LPG Reforms

1. **Economic Growth:** The LPG reforms played a significant role in driving India's economic growth. The average GDP growth rate increased from around 4% in the pre-reform era to over 7% in the post-reform period.
2. **Foreign Direct Investment (FDI):** The LPG reforms attracted substantial foreign direct investment into India. This infusion of foreign capital helped modernize industries and fostered technological advancements, such as in the automotive sector where global automobile companies set up manufacturing plants in India.
3. **Technological Advancements:** The LPG reforms facilitated the transfer of technology and know-how to Indian firms. For instance, the information technology sector experienced remarkable growth, with Indian companies becoming major players in global IT services.



4. **Industrial and Sectoral Transformation:** The LPG reforms led to a transformation of industries and sectors. The delicensing and privatization of industries resulted in increased competition and efficiency. One notable example is the telecom sector, where privatization and competition led to a significant expansion in mobile phone usage and affordable connectivity for millions of Indians.
5. **Global Integration:** The LPG reforms opened up the Indian economy to global markets. India became an active participant in international trade, and its merchandise exports grew from \$18.1 billion in 1991 to \$345.6 billion in 2020.
6. **Rise of Indian Multinational Companies:** The LPG reforms empowered Indian companies to expand globally. Some Indian companies, such as Tata Group, Infosys, and Reliance Industries, emerged as multinational corporations with operations and investments in multiple countries.
7. **Employment Generation:** The LPG reforms led to increased job opportunities across sectors. For instance, the IT and business process management (BPM) industry employed over 4.4 million professionals in 2020.
8. **Improved Infrastructure:** The LPG reforms brought investments in infrastructure development. For example, the Golden Quadrilateral project, initiated in 1999, improved road connectivity across major cities in India.
9. **Consumer Choices and Quality:** Liberalization and increased competition resulted in a wider range of choices and improved quality of goods and services for consumers. For instance, the availability of affordable smartphones and internet connectivity has brought digital services and e-commerce within reach of millions of Indians, transforming the way they access information, make purchases, and conduct business.
10. **Entrepreneurship and Innovation:** The LPG reforms fostered a culture of entrepreneurship and innovation in India. The startup ecosystem witnessed significant growth, with India ranking third globally in terms of the number of startups. Startups such as Flipkart, Ola, and Paytm have disrupted traditional sectors and introduced innovative business models.
11. **Poverty Reduction:** The sustained economic growth resulting from the LPG reforms has had positive impacts on poverty reduction.

### Unintended outcomes of the LPG reforms

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1. **Income Inequality:** While the reforms led to overall economic growth, the benefits were not equally distributed among all segments of society. The gap between the rich and the poor widened, leading to increased income disparities.
2. **Regional Disparities:** The LPG reforms had a varying impact on different regions of India. Some regions, particularly urban areas and states with better infrastructure and education, experienced faster growth and development. However, rural areas and economically disadvantaged regions faced challenges in adapting to the new economic environment, resulting in regional disparities.
3. **Job Displacements:** The reforms, particularly in sectors like agriculture and manufacturing, led to job displacements and restructuring. As industries became more competitive, some traditional sectors faced challenges, and workers in these sectors were affected by layoffs or shifts in employment patterns.
4. **Environmental Concerns:** The increased industrial activity, urbanization, and consumption patterns resulted in environmental degradation, including pollution, deforestation, and resource depletion.
5. **Social Impact:** The LPG reforms brought changes in social structures and norms. Traditional sectors and small-scale industries faced challenges in adapting to the new competitive environment, leading to social disruptions. Additionally, the increased influence of consumerism and market-driven values had an impact on social and cultural aspects of Indian society.
6. **Vulnerability to Global Economic Fluctuations:** The increased integration of the Indian economy with the global market made it more susceptible to global economic fluctuations. The 2008 global

financial crisis and subsequent global recessions had spill-over effects on the Indian economy, leading to slower growth rates and increased vulnerabilities.

7. **Financial Sector Risks:** The liberalization of the financial sector brought opportunities but also exposed the economy to financial risks. Instances of financial fraud, market volatility, and banking sector vulnerabilities emerged, highlighting the need for effective regulatory mechanisms and risk management practices.
8. **Loss of Government Control:** As a consequence of privatization, the government lost control over certain key sectors and industries which raised concerns related to national security and public welfare.

## **Premature Deindustrialization and Growth of Services in India**

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*Premature Deindustrialization:* Premature deindustrialization refers to the decline of the industrial sector before reaching its full potential. It is characterized by decreased industrial sector contribution to GDP, employment, and growth rate.

### *Causes of Premature Deindustrialization:*

1. **Lack of Infrastructure Investment:** Poor infrastructure hampers effective industrial operations and slows growth.
2. **High Cost of Doing Business:** High taxes, bureaucratic hurdles, and energy costs deter industrial growth.
3. **Limited Access to Credit:** Difficulty in accessing credit hinders investment in new technologies and expansion.
4. **Protectionism:** Protectionist policies hinder competition and innovation, limiting industrial growth.
5. **Low Labor Productivity:** Lower labor productivity compared to other countries affects competitiveness.

### *Reasons for Growth of Services:*

1. **Skilled Labor Force:** India's educated and fluent in English skilled workforce fuels service sector growth, especially in IT and BPO.
2. **Low Capital Requirement:** Services require less capital investment compared to heavy industries.
3. **Economic Liberalization (1991):** Liberalization policies attracted foreign investment, boosting service sector growth.
4. **Government Support:** Pro-service policies, tax incentives, subsidies, and infrastructure investment aided growth in Service sector.

## *Can India Become Developed Without Strong Industry?*

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While India's service sector has propelled growth, a strong industrial base remains crucial.

### *Benefits of Strong Industrial Base:*

1. **Employment Generation:** Industry creates more jobs, especially for less-skilled workers.
2. **Diversified Economy:** A mix of agriculture, industry, and services ensures economic stability.
3. **Technological Innovation:** Industrialization fosters innovation, research, and development.
4. **Export Competitiveness:** Industrial products contribute significantly to exports, boosting foreign exchange earnings.

5. **Balanced Regional Development:** Industrialization reduces urban-rural disparities and promotes inclusive growth.

India's premature deindustrialization and rapid service sector growth reflect a complex economic landscape. While service sector growth is valuable, a balanced and diversified economy with a strong industrial base is essential for sustainable and holistic development. A renewed emphasis on the manufacturing through programmes like 'Make in India' will serve to correct this anomaly.

### Criticisms of the Planning Commission

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1. **Lack of constitutional mandate:** The Planning Commission operated as an extra-constitutional body, meaning it was not established or mandated by the Constitution of India. This led to criticism regarding its legitimacy and authority to make decisions and allocate resources.
2. **Lack of accountability and transparency:** The Planning Commission was criticized for its opaque functioning and lack of accountability to the public.
3. **One-size-fits-all approach:** The Commission was accused of following a uniform planning approach that did not take into account the specific needs and challenges of different states and regions.
4. **Inefficient allocation of resources:** The Commission's centralized planning approach was criticized for leading to inefficient allocation of resources.
5. **Slow decision-making:** The Commission was often criticized for its slow decision-making process, which hampered the implementation of development projects.

The decision to abolish the Planning Commission was made by the Indian government in 2014, recognizing the need for a more modern and effective institution to address the country's developmental challenges.

### Formation of NITI Aayog (National Institution for Transforming India)

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NITI Aayog was established on January 1, 2015, as a replacement for the Planning Commission. It was aimed at fostering cooperative federalism and transforming India into a dynamic, knowledge-based, and inclusive society.

*Shift in approach:* NITI Aayog adopted a more decentralized and participatory approach to planning and policy-making, promoting the involvement of states, experts, and stakeholders. It aimed to promote the concept of "Team India" by involving all levels of government in the decision-making process.

### Structure of NITI Aayog

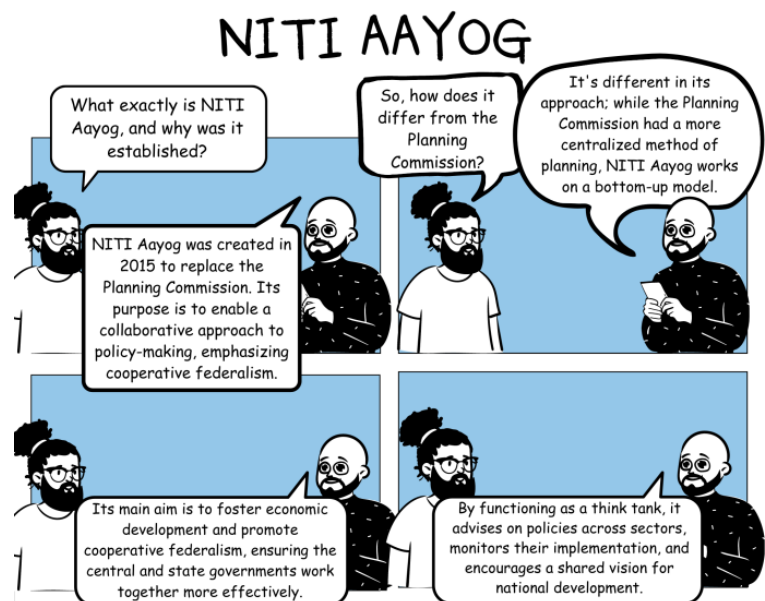
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1. **Chairperson:** The Prime Minister of India serves as the chairperson of NITI Aayog.
2. **Vice-Chairperson:** NITI Aayog also has a vice-chairperson, who is appointed by the Prime Minister.
3. **Governing Council:** NITI Aayog also has a Governing Council, which serves as the apex body of the institution. It includes the Prime Minister as the Chairperson, Chief Ministers of all states and union territories, Lieutenant Governors of union territories, and other members as deemed necessary.

4. **Full-time Members:** The Aayog has a maximum of five full-time members, who are appointed by the Prime Minister based on their expertise and experience in different sectors. These members are responsible for guiding and advising the Aayog on its policies and initiatives.
5. **Ex-officio Members:** The Aayog also includes certain ex-officio members, who are appointed due to their official positions in the government. These members include the Ministers of Finance, Agriculture, Home Affairs, and Human Resource Development.
6. **Special Invitees:** NITI Aayog may invite experts, specialists, and representatives from the private sector, civil society organizations, and international organizations to participate in its meetings and deliberations. These special invitees provide valuable input and guidance to the Aayog.
7. **Regional Councils:** NITI Aayog also includes five regional councils, each representing a geographical region of India - North, South, East, West, and Northeast. The Chief Ministers of the respective states in each region serve as members of their respective councils, along with Union Ministers and other officials.

## Features of NITI Aayog

1. **Team India Hub:** NITI Aayog operates the Team India Hub, which acts as a platform for collaboration between central ministries and state governments.
2. **Knowledge and Innovation Hubs:** NITI Aayog establishes Knowledge and Innovation Hubs in various domains to facilitate research, innovation, and knowledge exchange. These hubs serve as centers of excellence, bringing together experts, academia, and industry to generate new ideas and drive policy innovation.
3. **Three Key Documents:**
  - a. **3-Year Action Agenda:** NITI Aayog prepares a 3-Year Action Agenda, which outlines specific policy priorities, targets, and initiatives to be achieved within a three-year timeframe. It provides a roadmap for short-term actions and policy implementation.
  - b. **7-Year Medium-Term Strategy Paper:** The Aayog formulates a 7-Year Medium-Term Strategy Paper, which sets medium-term goals, policy directions, and strategies for achieving sustainable and inclusive growth.
  - c. **15-Year Vision Document:** NITI Aayog develops a 15-Year Vision Document, which provides a long-term vision for India's development. It outlines aspirations, challenges, and strategies to transform India into a prosperous, inclusive, and sustainable society.
3. **Cooperative Federalism:** NITI Aayog recognizes the importance of states as active partners in India's development and fosters collaboration, dialogue, and coordination between the central government and states.



4. **Bottom-Up Approach:** NITI Aayog encourages a bottom-up approach to planning and development. It emphasizes the participation of local communities, grassroots organizations, and civil society in identifying and addressing developmental challenges at the grassroots level.

### Comparison of Planning Commission and NITI Aayog

Planning Commission	NITI Aayog
Established in 1950 and abolished in 2014	Established in 2015
Centralized planning and allocation of resources	Policy think tank, coordination, and advisory body
Top-down approach	Bottom-up approach with a focus on cooperative federalism
Centralized decision-making by the Commission	Collaborative decision-making involving central and state governments and other stakeholders
One-size-fits-all approach	Tailored approach to address specific state needs and challenges
Lack of transparency and public accountability	Emphasizes transparency and accountability through public participation and consultations

### Achievements of NITI Aayog

1. **Sustainable Development Goals (SDGs):** NITI Aayog played a pivotal role in aligning India's development agenda with the United Nations' Sustainable Development Goals. It led the formulation of India's National Indicator Framework and facilitated the monitoring and implementation of the SDGs at the national and state levels.
2. **Atal Innovation Mission (AIM):** NITI Aayog launched the Atal Innovation Mission to foster innovation and entrepreneurship among India's youth. Under AIM, initiatives like Atal Tinkering Labs, Atal Incubation Centers, and Atal Community Innovation Centers were established, promoting a culture of innovation and creating a supportive ecosystem for startups.
3. **Aspirational Districts Program:** NITI Aayog initiated the Aspirational Districts Program to drive the development of India's most disadvantaged districts. Through targeted interventions, capacity building, and strategic partnerships, the program aims to uplift these districts and bridge the developmental gaps.
4. **Strategic Planning:** NITI Aayog has introduced long-term vision documents, medium-term strategy papers, and three-year action agendas to guide India's development trajectory. These documents provide a comprehensive roadmap and strategic direction for policy formulation, resource allocation, and program implementation.
5. **Cooperative Federalism:** NITI Aayog has fostered a spirit of cooperative federalism by actively engaging with state governments and involving them in the decision-making process. It has facilitated collaborative platforms and interactions among states, enabling the sharing of best practices, knowledge exchange, and coordination on development initiatives.
6. **International Engagements:** NITI Aayog has played a proactive role in engaging with international organizations, think tanks, and countries. It has facilitated partnerships, collaborations, and knowledge-sharing to draw global best practices, innovative solutions, and expertise to address India's developmental challenges.

7. **Digital Transformation:** NITI Aayog has been at the forefront of driving digital transformation in India. It has advocated for digital governance, promoted digital literacy, and supported initiatives such as Digital India, Digital Payments, and Digital Health, ensuring the inclusion of technology in various sectors to enhance efficiency and service delivery.

## **Additional Terms and Concepts**

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### *Nehru-Mahalanobis Model*

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The Nehru-Mahalanobis model is an economic development strategy formulated by India's first Prime Minister, Jawaharlal Nehru, and the Indian statistician Prasanta Chandra Mahalanobis. It emphasizes heavy industry and public sector-led industrialization, focusing on building a strong industrial base to drive economic growth.



## Previous Years Prelims Questions

1.	<p>With reference to the Indian economy after the 1991 economic liberalization, consider the following statements :</p> <p>(1) Worker productivity (Rs per worker at 2004-05 prices) increased in urban areas while it decreased in rural areas.  (2) The percentage share of rural areas in the workforce steadily increased.  (3) In rural areas, the growth in the non-farm economy increased.  (4) The growth rate in rural employment decreased.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 and 2 only  (b) 3 and 4 only  (c) 3 only  (d) 1, 2 and 4 only</p>	2020
2.	<p>With reference to India's Five-Year Plans, which of the following statements is/are correct?</p> <p>(1) From the Second Five-Year Plan, there was a determined thrust towards substitution of basic and capital good industries.  (2) The Fourth Five-Year Plan adopted the objective of correcting the earlier trend of increased concentration of wealth and economic power.  (3) In the Fifth Five-Year Plan, for the first time, the financial sector was included as an integral part of the Plan.</p> <p>Select the correct answer using the code given below.</p> <p>(a) 1 and 2 only  (b) 2 only  (c) 3 only  (d) 1, 2 and 3</p>	2019
3.	<p>With reference to 'National Investment and Infrastructure Fund', which of the following statements is/are correct?</p> <p>(1) It is an organ of NITI Aayog.  (2) It has a corpus of Rs. 4, 00,000 crore at present.</p> <p>Select the correct answer using the code given below:</p> <p>(a) 1 only  (b) 2 only  (c) Both 1 and 2</p>	2017

	(d) Neither 1 nor 2	
4.	<p>With reference to 'Financial Stability and Development Council', consider the following statements :</p> <p>(1) It is an organ of NITI Aayog.  (2) It is headed by the Union Finance Minister.  (3) It monitors macroprudential supervision of the economy.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 and 2 only  (b) 3 only  (c) 2 and 3 only  (d) 1, 2 and 3</p>	2016
5.	<p>The main objective of the 12th Five-Year Plan is</p> <p>(a) inclusive growth and poverty reductions  (b) inclusive and sustainable growth  (c) sustainable and inclusive growth to reduce unemployment  (d) faster, sustainable and more inclusive growth.</p>	2014

### Previous Years Mains Questions

1.	How are the principles followed by NITI Aayog different from those followed by the erstwhile planning commission in India?	2018
2.	Normally countries shift from agriculture to industry and then later to services, but India shifted directly from agriculture to services. What are the reasons for the huge growth of services vis-a-vis the industry in the country? Can India become a developed country without a strong industrial base?	2014
3.	Examine the impact of liberalization on companies owned by Indians. Are they competing with the MNCs satisfactorily? Discuss.	2013

#### Answers

1.	B	2.	A
3.	D	4.	C
5.	D		

# 20

CHAPTER

UNEMPLOYMENT 



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# Chapter 20

## Unemployment

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Unemployment is a term used to describe the situation where people who are willing and able to work are unable to find jobs.

### Terms related to Unemployment

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#### Working age population

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The working age population refers to the portion of a country's population capable of participating in the labor force. This typically includes individuals between the ages of 15-59.

#### Labour Force

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The labour force includes all individuals who are currently employed or unemployed but looking for work.

People who are not working and not looking for work (such as retirees, students, or those who have given up on finding a job) are not part of the labour force.

The labour force can be broken down by demographic factors: Economists often study the labour force by breaking it down into subgroups based on demographic factors such as age, gender, education level, and occupation. This can help us understand how different groups are faring in the job market and identify areas where there may be barriers to employment.

#### Labour Force Participation Rate

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The labor force participation rate is the percentage of people who are either working or actively seeking work out of the total population of working-age individuals.

$$\text{LFPR} = (\text{Labour Force} / \text{Total number of people in the working-age population}) \times 100\%$$

So, for example, if there are 50 people employed and 10 people actively seeking work out of a total working-age population of 100 people, the labor force participation rate would be:

$$(50 + 10) / 100 \times 100\% = 60\%$$

The labor force participation rate is an important economic indicator because it provides insight into the health of the labor market. A high labor force participation rate can indicate a strong labor market, with many opportunities for employment. On the other hand, a low labor force participation rate can indicate a weak labor market, with fewer job opportunities.

#### Unemployment Rate

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Unemployment rate is a measure of the percentage of the total labor force in an economy that is currently unemployed and actively seeking employment.

$$\text{Unemployment Rate} = (\text{Number of Unemployed} / \text{Labor Force}) \times 100$$

Let's break down this formula with the previous example. If there are 50 people employed and 10 people actively seeking work out of a total working-age population of 100 people, the unemployment rate would be:

Labor force = Number of employed + Number of unemployed = 60

Now we can plug in the numbers and calculate the unemployment rate:

Unemployment rate =  $(10 / 60) \times 100\% = 16.67\%$

## Types of Unemployment

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### Disguised Unemployment

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Disguised unemployment is a type of unemployment that occurs when people appear to be employed but are actually not contributing to the economy in a meaningful way. In other words, there are more people working in a particular sector than is actually necessary for the amount of work that needs to be done.

Here's an example to help illustrate this concept. Let's say that there is a small farm that requires 4 people to work it efficiently. However, due to a lack of job opportunities in the area, 8 people are working on the farm. While the extra 4 people may appear to be employed, they are not actually contributing to the productivity of the farm, since the work could be done with fewer people.

Disguised unemployment is often found in agricultural economies, where there may be a lack of alternative employment opportunities. It can also occur in other sectors of the economy, such as construction or manufacturing.

Disguised unemployment can be measured using a concept called the "**Marginal Product of Labor**" (MPL). The MPL is the additional output that is produced when one additional unit of labor is added to the production process. When the MPL is low or zero, it suggests that there may be disguised unemployment in the sector.

**MPL = change in output / change in labor input**

If the MPL is low or zero, it suggests that adding additional labor to the production process is not resulting in much additional output. This could indicate that there are too many workers in the sector, and some of them are not actually contributing to the economy.

### Structural Unemployment

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Structural unemployment is a type of unemployment that occurs when there is a mismatch between the skills and abilities of workers and the jobs that are available in the economy. In other words, it's when people are unemployed because their skills are not in demand in the job market.

One common example of structural unemployment is when a particular industry or sector of the economy experiences a decline and jobs in that area become less in demand. For example, the rise of automation and technology has led to job losses in industries such as manufacturing, where machines and robots can perform tasks that were previously done by human workers. This can result in structural unemployment for workers who have skills and experience in those industries but may not have the necessary skills to transition to new jobs in other sectors of the economy.

Another example of structural unemployment is when there is a lack of education and training opportunities available for workers to acquire the skills needed for jobs that are in demand. This can be



especially true for workers in rural or economically disadvantaged areas, where there may be limited access to education and training programs.

By helping workers to develop new skills and transition to new job opportunities, we can reduce the incidence of structural unemployment and promote more inclusive economic growth.

## Seasonal unemployment

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Seasonal unemployment refers to a type of unemployment that occurs due to seasonal fluctuations in demand for labor. This means that during certain times of the year, there is more demand for workers in certain industries, and during other times of the year, there is less demand. As a result, workers may be unemployed during the off-seasons when there is not enough work available.

One common example of seasonal unemployment is in the agricultural industry. During planting and harvesting seasons, there is a lot of demand for workers to help with the planting, harvesting, and processing of crops. However, during the off-seasons, there is not as much work available in this industry, and workers may be unemployed.

Another example of seasonal unemployment is in the tourism industry. In many tourist destinations, there is a peak season when there are a lot of visitors and a lot of demand for workers in the hospitality and service sectors. However, during the off-seasons, there are fewer visitors and less demand for workers, which can lead to unemployment.

In some cases, seasonal unemployment can also lead to a reduction in wages for workers, as there is more competition for the available jobs during peak seasons.

Governments may try to address seasonal unemployment through policies such as job training programs or by supporting industries that can provide year-round employment. In some cases, governments may also provide unemployment benefits or other forms of support to workers who are unemployed during the off-seasons.

## Technological Unemployment

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Technological unemployment is a term that refers to the loss of jobs that occurs as a result of advancements in technology. When machines and automation become more efficient and capable than human workers, it can lead to a decrease in demand for human labor and result in unemployment.

One example of technological unemployment is the replacement of human workers with robots in factories.

Another example of technological unemployment is the rise of self-driving cars. While this technology is still being developed, it has the potential to greatly reduce the need for human drivers in industries such as transportation and logistics. If self-driving cars become widespread, it could lead to significant job losses for drivers and other workers in related industries.

It's worth noting that technological unemployment is not a new phenomenon. Throughout history, technological advancements have often led to job losses in certain industries, but they have also created new job opportunities in others. For example, the rise of the internet and e-commerce has led to the creation of new jobs in fields such as web development and online marketing.

However, some economists and researchers have expressed concern that the current wave of automation and artificial intelligence could lead to a greater and more widespread impact on employment than in the past. As technology continues to advance, it's important for policymakers and society as a whole to consider the potential impacts on employment and work to develop solutions to help workers adapt to these changes.

## Cyclical or Keynesian Unemployment

Cyclical unemployment is a type of unemployment that occurs as a result of downturn in the business cycle, which leads to a decrease in demand for goods and services, and therefore a decrease in demand for workers.

When the economy is in a downturn or recession, companies may cut back on production and lay off workers in order to save costs. As a result, many workers who were previously employed may find themselves without a job.

For example, during the global financial crisis of 2008, many companies in the United States and around the world were forced to lay off workers in order to stay afloat. This led to a significant increase in the number of people who were unemployed.

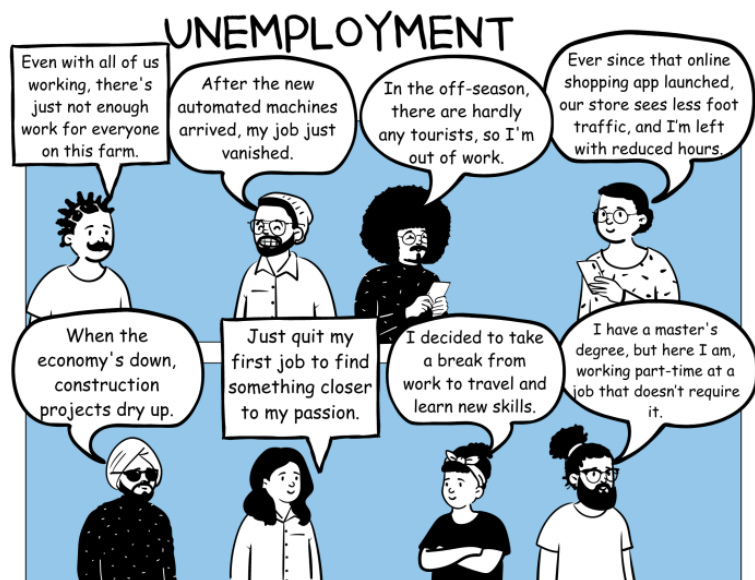
Cyclical Unemployment is also known as Keynesian unemployment. As per, John Maynard Keynes, well known economist, the economy is not always self-correcting and can sometimes get stuck in a state of recession or depression. In his view, government intervention is necessary to stimulate the economy and help it recover from these downturns.

One of the ways Keynes thought the government could intervene was by increasing aggregate demand. Aggregate demand refers to the total amount of goods and services that consumers, businesses, and the government are willing to buy at a given price level. When aggregate demand is low, businesses may not have enough customers to justify hiring new workers, which can lead to unemployment.

In this situation, the government can step in and use various policy tools to increase aggregate demand and stimulate economic growth.

For example, the government might increase spending on infrastructure projects or provide tax incentives to businesses to encourage investment. By doing so, they can create more demand for goods and services, which in turn can lead to more hiring and lower unemployment.

Another way to increase aggregate demand is by lowering interest rates, which can make borrowing cheaper and encourage consumers and businesses to spend more. This can also help stimulate economic activity and reduce unemployment.



## Frictional Unemployment

Frictional unemployment is a type of unemployment that occurs when workers are between jobs. It happens when people are in the process of looking for a new job or transitioning from one job to another.

It's called "frictional" unemployment because it's a natural part of the labor market, and it occurs because of the time and effort it takes for workers and employers to find each other and match the right

skills to the right job openings. In other words, there is some "friction" or delay in the process of job matching.

For example, let's say that someone quits their job as a software developer to look for a job as a data analyst. During the time they're searching for a new job, they would be considered frictionally unemployed. They're not unemployed because they lack the skills or qualifications to work, but because they're in between jobs.

Another example of frictional unemployment could be someone who just graduated from college and is actively searching for their first job. They may face a period of unemployment while they search for a job that matches their skills and qualifications.

It's important to note that frictional unemployment is generally considered to be a temporary and short-term phenomenon. In fact, some level of frictional unemployment is actually seen as a good thing because it can help to facilitate better job matches and more efficient use of labor resources in the economy.

## Voluntary Unemployment

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Voluntary unemployment refers to a situation where a person chooses not to work, even though there are job opportunities available. This can occur for a variety of reasons, such as personal preferences, family responsibilities, or the pursuit of further education or training.

For example, let's say that a recent college graduate is offered a job with a starting salary that is below their expectations. The graduate may choose not to take the job and instead continue searching for a higher paying opportunity, even though they are capable of doing the job they were offered. This is an example of voluntary unemployment, as the individual has made a conscious decision not to work, despite the presence of job opportunities.

Another example of voluntary unemployment could be someone who decides to take time off work to care for a sick family member. While there may be job opportunities available, the individual has chosen not to work in order to take care of their family member.

In some cases, voluntary unemployment can be beneficial for the individual and society. For example, if someone chooses to pursue further education or training, it may lead to increased skills and higher wages in the future, which can ultimately benefit the economy as a whole.

## Underemployment

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Underemployment refers to a situation where a person is employed but not in a job that fully utilizes their skills, abilities, and education. In other words, they may be working, but they are not able to work as many hours as they would like, or they are working in a job that does not pay as well or provide the same level of job security as they could otherwise have.

An example of underemployment would be a person who holds a degree in engineering but is working as a cashier at a retail store. They are employed, but they are not using their education and skills to their fullest potential, and they may be earning less than they would in a job that better matches their qualifications.

Underemployment can have a number of negative effects on both individuals and the economy as a whole. For individuals, it can result in lower wages, fewer benefits, and reduced job satisfaction. It can also lead to increased stress, depression, and other mental health issues.

From an economic perspective, underemployment can result in a loss of productivity and economic growth. When people are not able to work to their full potential, it can slow down the overall growth of the economy and make it harder for businesses to expand and create new jobs.

## Measurement of Unemployment

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In India, the National Sample Survey Office (NSSO), which is part of the Ministry of Statistics and Programme Implementation (MoSPI), is responsible for conducting surveys to measure unemployment.

There are several approaches to measuring unemployment, and the NSSO uses three main approaches:

1. **Usual Status Approach:** This approach estimates only those persons as unemployed who had no gainful work for a major time during the 365 days preceding the date of the survey. This approach provides a measure of long-term unemployment.
2. **Weekly Status Approach:** This approach considers only those persons as unemployed who did not have gainful work even for an hour on any day of the week preceding the date of the survey. This approach provides a measure of short-term unemployment.
3. **Daily Status Approach:** This approach measures the unemployment status of a person for each day in a reference week. A person who has no gainful work even for 1 hour in a day is described as unemployed for that day. This approach provides a more detailed picture of unemployment patterns over time.

The **Periodic Labour Force Survey (PLFS)** is a comprehensive survey of employment and unemployment conducted by the National Sample Survey Office (NSSO).

The PLFS collects data on a wide range of labor market indicators, including employment, unemployment, and labor force participation rates. It also provides detailed information on the demographic characteristics of the labor force, such as age, sex, education, and occupation.

The survey is conducted using a stratified random sampling method, and covers both rural and urban areas. The sample size is large enough to provide reliable estimates at the national, state, and district levels.

The PLFS has become an important source of data for policymakers, researchers, and analysts interested in understanding the dynamics of the labor market in India. It provides up-to-date information on key labor market indicators, and helps to identify trends and patterns that can inform policy decisions related to employment, training, and social protection.

## Elasticity of Employment

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The elasticity of employment refers to the responsiveness of employment to changes in economic growth, as measured by the growth rate of GDP.

$$\text{Elasticity of Employment} = \% \text{ change in employment} / \% \text{ change in GDP}$$

If the elasticity of employment is greater than 1, employment is said to be elastic, which means that employment growth is more responsive to changes in economic growth. Conversely, if the elasticity of employment is less than 1, employment is said to be inelastic, which means that employment growth is less responsive to changes in economic growth.

A situation where the GDP is increasing, but employment is not increasing at the same rate, is known as **jobless growth**. Jobless growth occurs when the economy experiences growth without generating enough new jobs to keep pace with the growth in the labor force. This can happen due to a variety of factors, such as technological advancements that replace human labor, changes in the structure of the economy, or policy issues that discourage job creation.

## Causes of Unemployment in India

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Unemployment is a major issue in India, and there are a number of different factors that contribute to it. Here are some of the main causes of unemployment in India:

1. **Lack of education and skills:** Many people in India do not have the necessary education or skills to qualify for available job opportunities. This can be due to a lack of access to education, or to an education system that does not adequately prepare students for the workforce. For example, in rural areas of India, many young people do not have access to quality education, which can make it difficult for them to find good jobs later on.
2. **Population growth:** India has a very large population, which means that there are more people competing for a limited number of jobs. This can make it difficult for people to find employment, especially in sectors where job growth is not keeping up with population growth.
3. **Slow economic growth:** When the economy is growing slowly, there are fewer new jobs being created, which can lead to higher levels of unemployment. This can happen for a variety of reasons, such as government policies that discourage investment or slow down economic growth, or external factors like global economic downturns that affect the Indian economy.
4. **Agriculture sector:** Agriculture is a major sector in India, and it employs a large number of people. However, the sector is often characterized by low wages and unstable employment, which can contribute to unemployment. Additionally, many people who work in agriculture do not have access to alternative employment opportunities, which can make it difficult for them to transition to other sectors.
5. **Demographic trends:** India has a young population, with a large number of people entering the workforce each year. While this can be a positive thing in terms of providing a large pool of potential workers, it can also contribute to higher levels of unemployment if job growth does not keep up with population growth.

## Impact of Unemployment

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1. **Economic impact:** Unemployment can have a negative impact on the economy as a whole. When people are unemployed, they have less money to spend, which can lead to a decrease in demand for goods and services. This can cause businesses to slow down or even shut down, leading to more job losses. It can also lead to a decrease in tax revenues for the government, which can impact public services and infrastructure.
2. **Social impact:** Unemployment can also have a significant social impact. People who are unemployed may experience stress and anxiety due to financial instability, which can impact their mental and physical health. It can also lead to social issues such as poverty, homelessness, and crime. Additionally, long-term unemployment can lead to a loss of skills and self-confidence, making it even harder to find employment in the future.
3. **Political impact:** High levels of unemployment can have political ramifications as well. In some cases, it can lead to social unrest and political instability. Politicians may be pressured to take action to address the issue, such as creating new jobs or implementing policies to support those who are unemployed.

## Government Initiatives to control unemployment

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1. **Fiscal policy:** This refers to the government's use of taxes and spending to influence the economy. One way to control unemployment through fiscal policy is through government spending on public projects and infrastructure, which can create jobs and stimulate economic growth. For example, the Indian government has launched various infrastructure projects, such as building highways, ports, and airports, to create jobs and promote economic development.
2. **Monetary policy:** This refers to the central bank's control over the supply of money and credit in the economy. One way to control unemployment through monetary policy is through interest rate adjustments, which can influence borrowing and spending. For example, if the central bank lowers interest rates, it can encourage businesses to invest more, which can create jobs and reduce unemployment.
3. **Training and education programs:** Governments can also invest in training and education programs to help workers develop the skills they need to find and keep jobs. For example, the Indian government has launched various initiatives to provide vocational training and skill development programs to unemployed youth, such as the Pradhan Mantri Kaushal Vikas Yojana.
4. **Job creation programs:** Governments can also directly create jobs through various programs and initiatives. For example, the Indian government has launched the Mahatma Gandhi National Rural Employment Guarantee Act (MNREGA), which provides employment to individuals through public works programs.
5. **Entrepreneurship promotion:** Governments can also promote entrepreneurship and self-employment as a way to create jobs and reduce unemployment. For example, the Indian government has launched the Startup India initiative, which provides funding, mentoring, and other support to entrepreneurs to help them start and grow their businesses.

## Additional Terms and Concepts

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### *Natural Rate of Unemployment*

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The natural rate of unemployment is the level of unemployment that exists when the economy is at full employment, accounting for frictional and structural unemployment. It is the rate at which the labor market is in equilibrium, with no cyclical unemployment.

Example: In an economy, even when it is doing well, there will still be some people who are unemployed because they are changing jobs (frictional unemployment) or because their skills do not match the available jobs (structural unemployment). If the natural rate of unemployment in India is estimated to be 2%, this means that even when the economy is performing optimally, about 2% of the labor force will be unemployed due to these factors.

### *Hysteresis in Unemployment*

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Hysteresis in unemployment refers to the phenomenon where high levels of unemployment can become persistent and self-perpetuating, even after the initial causes of the unemployment have been resolved. This can happen because long-term unemployment erodes workers' skills and makes them less employable.

Example: During an economic downturn, a large number of workers in India lose their jobs. As the economy recovers, some of these workers remain unemployed because they have been out of work for so long that their skills have deteriorated, or they are perceived as less attractive to employers. This persistent unemployment, even after the economy has improved, is an example of hysteresis.

### *Unemployment Trap*

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An unemployment trap occurs when individuals are discouraged from working because the financial benefits of being unemployed (such as welfare payments) outweigh the financial benefits of working. This creates a disincentive to seek employment.

Example: In parts of USA, the government provides unemployment benefits that are relatively high compared to the wages available for low-skilled jobs. As a result, some individuals may find that they are better off financially by remaining unemployed and receiving benefits rather than taking up low-paying jobs. This situation creates an unemployment trap.

### *Hidden Unemployment*

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Hidden unemployment refers to people who are not counted in official unemployment statistics because they are not actively seeking work, even though they would like to work. This can include discouraged workers who have given up looking for jobs or those working part-time but desiring full-time employment.

Example: In a rural area of India, many people may have stopped looking for jobs because they believe there are no opportunities available. They are not included in the official unemployment rate because they are not actively seeking employment, but they are still unemployed in the sense that they want to work. This is an example of hidden unemployment.

### *NAIRU (Non-Accelerating Inflation Rate of Unemployment)*

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NAIRU is the level of unemployment at which inflation does not accelerate. It represents a balance where the labor market is tight enough to prevent wages from rising too quickly, which would lead to higher inflation, but not so tight that it causes inflation to fall.

Example: If India's NAIRU is estimated to be 5%, this means that when the unemployment rate is at 5%, inflation remains stable. If unemployment falls below 5%, wage pressures increase, leading to higher inflation. Conversely, if unemployment rises above 5%, inflationary pressures decrease.



### Previous Years Prelims Questions

1.	Disguised unemployment generally means  (a) large number of people remain unemployed (b) alternative employment is not available (c) marginal productivity of labour is zero (d) productivity of workers is low	2013
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### Previous Years Mains Questions

1.	Most of the unemployment in India is structural in nature. Examine the methodology adopted to compute unemployment in the country and suggest improvements.	2023
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### Answers

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# 21

CHAPTER

HUMAN RESOURCE  
DEVELOPMENT





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# Chapter 21

## Human Resource Development

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Human Resource Development (HRD) refers to enhancing the skills, knowledge, capabilities, and overall potential of individuals within a society or organization.

HRD involves:

1. **Education:** Formal and informal learning processes that equip individuals with academic knowledge and cognitive skills.
2. **Training:** Skill-specific programs that enhance practical abilities for specialized tasks.
3. **Skill Development:** Fostering technical, vocational, and soft skills to address industry demands.
4. **Capacity Building:** Developing leadership, managerial, and problem-solving competencies.
5. **Lifelong Learning:** Continual development throughout one's career to adapt to changing environments.

### Importance of HRD for Economic Growth and Development

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1. **Enhanced Workforce Productivity:** A skilled workforce can efficiently utilize resources, innovate, and improve operational efficiency, thereby boosting economic productivity.
2. **Competitive Advantage:** Nations with a highly skilled workforce gain a competitive edge in the global market. It enhances a country's ability to offer specialized services, attract foreign investments, and engage in high-value industries.
3. **Poverty Reduction and Social Inclusion:** HRD creates better employment opportunities and higher income potential, reducing poverty and improving living standards. It promotes social inclusion by providing equal access to education and skill development, empowering marginalized groups.
4. **Demographic Dividend Utilization:** HRD maximizes the potential benefits of a youthful population by equipping them with skills that match labor market demands.
5. **Reduction of Unemployment and Underemployment:** A better-skilled workforce is more adaptable to changing job requirements.
6. **Sectoral and Regional Development:** It reduces migration from rural to urban areas by creating opportunities at the local level.
7. **Sustainable Development:** It ensures that growth benefits all sections of society and contributes to long-term stability.

### Demographic Dividend

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Demographic dividend refers to the economic advantage that a country can potentially gain from having a large and youthful working-age population compared to the dependent and elderly population. It occurs when the proportion of the population in the working-age group (typically 15 to 64 years) is larger than the dependent population (children and elderly), leading to a potential boost in economic growth and development. This phenomenon is a result of declining birth rates and mortality rates within a population.

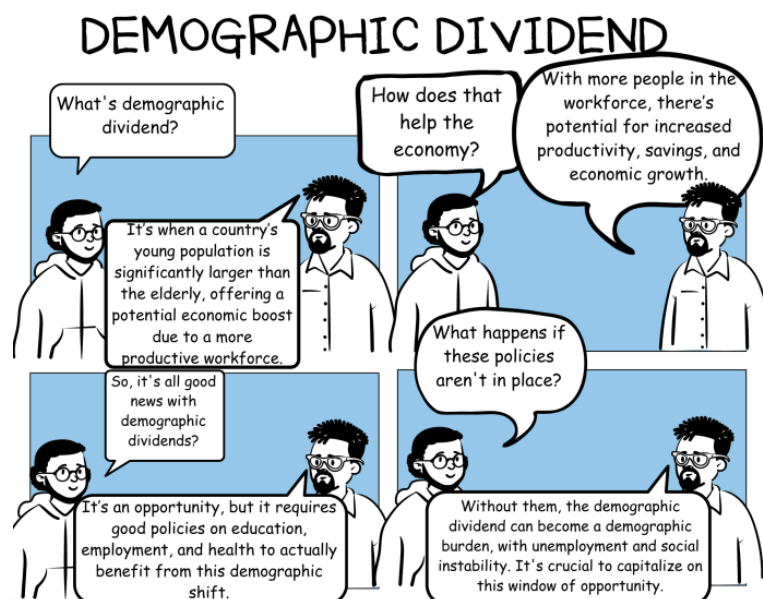
## Key Components of Demographic Dividend

1. **Youthful Population:** This results from lower birth rates, improved healthcare, and reduced child mortality.
2. **Labor Force Participation:** A larger working-age population can help increase the overall labor force participation rate.
3. **Economic Growth Potential:** More people in the workforce can lead to increased production, innovation, and consumption.
4. **Savings and Investments:** A demographic dividend offers an opportunity for increased savings and investments, as the working-age population can save a significant portion of their income.
5. **Human Capital Development:** Countries with a demographic dividend should invest in education, skill development, and training to ensure that the youth entering the workforce are equipped with the necessary skills to drive economic growth.

## Utilizing the Demographic Dividend

To harness the benefits of the demographic dividend, governments and policymakers need to implement strategies that promote economic growth and human development. Key strategies include:

1. **Quality Education:** Investing in education and vocational training to ensure that the youth are equipped with relevant skills for the job market. This enhances human capital and employability.
2. **Healthcare Services:** Ensuring accessible and quality healthcare services to reduce mortality rates, leading to a healthier and more productive workforce.
3. **Job Creation:** Promoting policies that encourage job creation, entrepreneurship, and investment in various sectors of the economy.
4. **Women Empowerment:** Promoting gender equality and women's participation in the workforce can enhance the demographic dividend by increasing the labor force participation rate.
5. **Infrastructure Development:** Developing infrastructure such as transportation, communication, and energy systems can facilitate economic activities and attract investments.
6. **Social Security and Pension Schemes:** Implementing social safety nets and pension schemes to support the elderly population can mitigate potential challenges that arise as the demographic structure changes over time.





## Challenges and Considerations

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1. **Dependency Ratio:** While demographic dividend offers opportunities, it also comes with challenges. If not managed properly, a sudden increase in the dependent elderly population can strain social welfare systems.
2. **Mismatched Skills:** The education and training system must align with the needs of the job market to avoid a situation where a large youth population does not find suitable employment opportunities.
3. **Urbanization:** As the youth population migrates to urban areas for better opportunities, proper urban planning and infrastructure development are essential to prevent overcrowding and inadequate living conditions.
4. **Policy Coordination:** Effective coordination between various sectors such as education, health, labor, and finance is crucial to fully utilize the demographic dividend.

In conclusion, the demographic dividend presents a unique opportunity for countries to accelerate economic growth and development. However, realizing these benefits requires careful planning, investment in human capital, and implementation of appropriate policies to ensure that the youth population can contribute effectively to the economy and society as a whole.

## Informal Sector in India

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The informal sector, often referred to as the unorganized sector, encompasses economic activities that are not regulated or protected by formal labor laws, lack official recognition, and operate outside of traditional bureaucratic structures. It is a significant component of many developing economies, including India.

### Characteristics of the Informal Sector

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1. **Limited Legal Recognition:** Informal sector jobs are often not protected by formal contracts or labor laws, leaving workers vulnerable to exploitation.
2. **Low Skill Requirement:** Many jobs in the informal sector require basic skills and minimal training. These jobs are easily accessible to those with limited education.
3. **Lack of Social Security:** Workers in the informal sector typically lack access to social security benefits such as healthcare, pension, and insurance.
4. **Low Productivity and Income:** Due to the lack of access to resources, technology, and markets, informal sector workers often earn lower wages compared to their formal sector counterparts.

### Challenges and Concerns

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1. **Exploitation and Vulnerability:** Informal sector workers often face exploitation, low wages, and poor working conditions due to the lack of legal protection and bargaining power.
2. **Lack of Social Security:** Absence of social security benefits makes informal sector workers susceptible to financial shocks and hardships.
3. **Inadequate Skill Upgradation:** Limited access to training and skill development programs can hinder the growth potential of informal sector workers.
4. **Limited Access to Finance:** Informal enterprises often struggle to access formal financial services, hindering their ability to expand and innovate.

5. **Tax Evasion and Informal Economy:** The informal sector's unregulated nature can lead to tax evasion and reduced government revenue, affecting public welfare programs.

## Government Initiatives

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1. **Skill Development Programs:** The government has launched skill development initiatives like the Skill India Mission to enhance the employability of informal sector workers.
2. **Social Welfare Schemes:** Various welfare programs aim to provide social security and financial assistance to informal sector workers and their families.
3. **Financial Inclusion:** Efforts are being made to increase financial inclusion and provide credit access to informal sector entrepreneurs through initiatives like Jan Dhan Yojana.
4. **Micro, Small, and Medium Enterprises (MSME) Support:** The government supports informal sector enterprises through schemes that provide credit, technology, and market access.

## Labor Migration in India

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Labor migration refers to the movement of people from one region or country to another in search of better employment opportunities and improved living conditions. In India, labor migration is a significant phenomenon with far-reaching implications for both the source and destination areas. It plays a crucial role in shaping the human resource development landscape of the country.

### Types of Labor Migration

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**Internal Migration:** Movement of people within the borders of the same country. This can be rural-to-urban migration, inter-state migration, or movement between different regions within a state.

**International Migration:** Movement of people from one country to another for work. In the Indian context, this often involves migrating to Gulf countries, Southeast Asia, Europe, and North America.

### Causes of Labor Migration

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1. **Employment Opportunities:** Lack of sufficient employment opportunities in rural areas and small towns compels individuals to migrate in search of better-paying jobs.
2. **Wage Disparities:** Wage differentials between rural and urban areas or between countries motivate people to migrate for higher incomes.
3. **Skilled and Unskilled Labor Demand:** Both skilled and unskilled labor is in demand, particularly in sectors such as construction, agriculture, manufacturing, and services.
4. **Poverty and Livelihood:** Migrants often come from economically disadvantaged backgrounds, seeking to escape poverty and improve their quality of life.
5. **Education and Aspirations:** Aspirations for better education, lifestyle, and social mobility drive individuals to migrate to urban centers or other countries.

### Impact on Human Resource Development

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1. **Skill Transfer and Development:** Labor migration contributes to skill development as migrants acquire new skills and knowledge, often transferring them back to their home regions.
2. **Remittances:** Migrants send remittances back home, which can contribute to economic development, poverty reduction, and improved access to education and healthcare.

3. **Urbanization:** Migration to urban areas leads to urbanization, with both positive and negative consequences for infrastructure, services, and quality of life.
4. **Labor Shortages and Surpluses:** Migration can result in labor shortages in source areas and surpluses in destination areas, affecting local labor markets.
5. **Social and Cultural Changes:** Migrants' exposure to different cultures and values can lead to social changes and influence attitudes toward education, gender roles, and social norms.

## Challenges and Concerns

1. **Exploitation and Vulnerability:** Migrants often face exploitation, low wages, and poor working conditions due to their vulnerable status.
2. **Family Separation:** Migration can lead to family separation and disruption of social ties, impacting emotional well-being.
3. **Informal Employment:** Many migrants end up in informal sector jobs, which lack job security and social protection.
4. **Legal and Social Protection:** Migrants may lack legal protection, making them susceptible to abuse and human rights violations.

## Government Initiatives

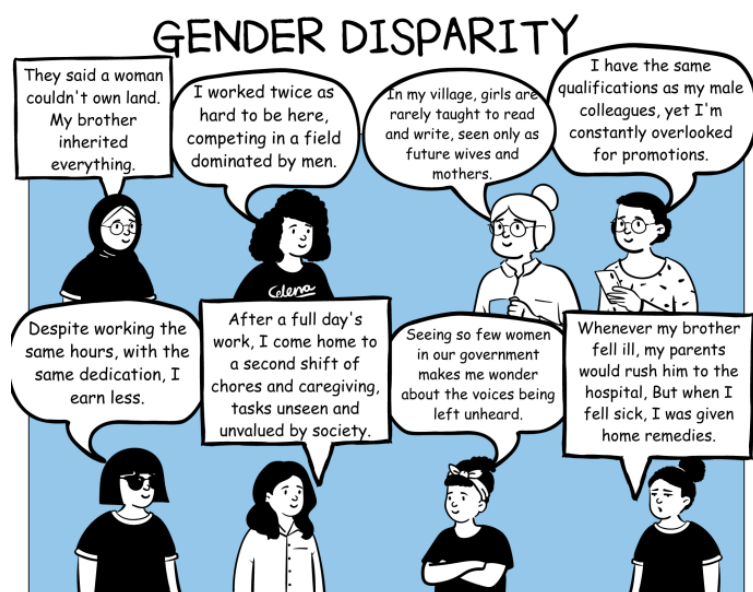
1. **Welfare Schemes:** Various government schemes aim to provide social security and healthcare benefits to migrant workers and their families.
2. **Skill Development:** Skill development programs are being implemented to enhance the employability of migrant workers and improve their access to formal sector jobs.
3. **Inter-state Cooperation:** Collaborative efforts between states are being promoted to ensure the welfare of migrant workers and address challenges related to their mobility.

## Gender Disparity

Gender disparity refers to the unequal treatment, opportunities, and outcomes between individuals of different genders. Addressing gender disparity is essential for achieving sustainable and inclusive development. In India, despite significant progress, gender disparities persist and continue to hinder optimal human resource development.

### Education and Gender Disparity

1. **Enrollment Disparity:** Historically, girls and women have faced lower enrollment rates in formal education systems, particularly in



rural and marginalized communities.

2. **Literacy Gap:** A gender-based literacy gap exists, with higher illiteracy rates among women, limiting their access to knowledge, skills, and opportunities.
3. **Educational Attainment:** Even when girls enroll in schools, they often drop out early due to social, cultural, and economic factors, leading to lower educational attainment compared to boys.

## Employment and Gender Disparity

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1. **Labor Force Participation:** Women's participation in the formal labor force is lower than that of men, largely due to cultural norms, societal expectations, and lack of suitable employment opportunities.
2. **Occupational Segregation:** Women tend to be concentrated in lower-paying and less prestigious occupations, leading to occupational segregation and reduced earning potential.
3. **Wage Gap:** A significant gender wage gap persists, where women typically earn less than men for similar work, contributing to economic inequality.
4. **Unpaid Work:** Women often engage in a disproportionate amount of unpaid care work, including household chores and caregiving responsibilities, limiting their time for paid employment and skill development.

## Social Participation and Gender Disparity

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1. **Political Representation:** Women's representation in political leadership positions remains low, limiting their influence in decision-making processes.
2. **Access to Resources:** Limited access to land, credit, and technology further exacerbates gender disparities in income and economic opportunities.
3. **Healthcare Disparities:** Gender-based healthcare disparities impact women's well-being and productivity, particularly in terms of maternal health and nutrition.

## Causes of Gender Disparity

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1. **Societal Norms:** Deep-seated cultural norms and stereotypes perpetuate traditional gender roles and limit women's opportunities.
2. **Discriminatory Practices:** Discrimination against women in education, employment, and other spheres reinforces gender disparity.
3. **Lack of Empowerment:** Limited decision-making power, social mobility, and agency restrict women's ability to overcome gender disparities.

## Impact of Gender Disparity

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1. **Economic Growth:** Gender disparity can hinder economic growth by underutilizing a significant portion of the workforce and constraining human capital development.
2. **Human Capital Development:** Gender disparities in education and skill development limit the overall potential of human resource development.
3. **Inequality:** Gender disparity contributes to income and wealth inequality, affecting social cohesion and stability.

## Government Initiatives

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1. **Legal Reforms:** Legislative measures such as the Equal Remuneration Act and Maternity Benefit Act aim to promote gender equality in the workplace.
2. **Skill Development Programs:** Initiatives like Skill India aim to provide skill training to women, enhancing their employability and income potential.
3. **Educational Programs:** Programs like Beti Bachao Beti Padhao promote girls' education and address gender stereotypes.
4. **Women's Empowerment Schemes:** Schemes like Mahila Shakti Kendra focus on empowering women through skill development, entrepreneurship, and social support.

## Health and Human Resource Development

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A healthy population is better equipped to participate in education, employment, and other productive activities.

### Healthcare Challenges in India

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1. **Limited Access:** Many rural and marginalized communities have limited access to quality healthcare services, leading to health disparities.
2. **Undernutrition and Malnutrition:** Malnutrition, particularly among children, remains a significant concern, affecting physical and cognitive development.
3. **Maternal and Child Health:** High maternal and infant mortality rates reflect inadequate maternal and child healthcare services.
4. **Non-Communicable Diseases (NCDs):** The prevalence of lifestyle-related diseases such as diabetes and hypertension is on the rise, straining the healthcare system.
5. **Infectious Diseases:** Despite progress, communicable diseases like tuberculosis, malaria, and HIV/AIDS continue to affect a substantial portion of the population.

## Government Initiatives

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1. **National Health Mission:** A flagship program aimed at improving healthcare services in rural and urban areas, focusing on maternal and child health, immunization, and disease control.
2. **Ayushman Bharat:** A health insurance scheme providing financial protection to vulnerable populations and promoting access to healthcare services.
3. **Swachh Bharat Abhiyan:** A sanitation campaign to improve hygiene and reduce the burden of waterborne diseases.
4. **POSHAN Abhiyan:** Aims to reduce malnutrition and stunting among children and improve the health and nutritional status of mothers.

## Impact of Health on Human Resource Development

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1. **Education:** Good health facilitates regular school attendance, concentration, and active participation in educational activities.
2. **Labor Force Participation:** Healthy individuals are more likely to participate in the labor force, contributing to economic growth.
3. **Skill Development:** A healthy workforce is better equipped for skill development and lifelong learning, enhancing employability.

4. **Gender Equality:** Improved health reduces gender disparities by enabling women to participate more fully in education and employment.

## Challenges

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1. **Inadequate Healthcare Infrastructure:** Insufficient healthcare facilities, especially in rural areas, limit access to quality medical services.
2. **Healthcare Financing:** High out-of-pocket expenses for healthcare can lead to financial hardships, particularly for low-income households.
3. **Health Literacy:** Lack of awareness and health literacy hinder preventive measures and timely healthcare seeking.

## Ageing Population and Its Implications on Human Resource Development

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An ageing population refers to a demographic shift characterized by an increasing proportion of elderly individuals in a society's population structure.

### Factors Contributing to an Ageing Population

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- **Declining Fertility Rates:** Lower birth rates lead to a reduced proportion of younger individuals in the population pyramid.
- **Increased Life Expectancy:** Advances in healthcare, nutrition, and living conditions have led to longer lifespans, contributing to the ageing population trend.

### Challenges Posed by an Ageing Population

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1. **Dependency Ratio:** The ratio of working-age individuals to dependents (children and elderly) may become imbalanced, straining social support systems.
2. **Pension Burden:** Sustaining pension systems becomes challenging with a higher proportion of retirees relative to active workers.
3. **Healthcare Costs:** The elderly require more healthcare services, potentially increasing healthcare expenditure.

### Way forward

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1. **Skill Enhancement:** As technological advancements and job requirements continue to evolve, older individuals may face challenges in keeping up with new skills and demands. Tailored training programs can offer them opportunities to upskill or reskill, ensuring they remain relevant in the job market.
2. **Flexible Retirement Policies:** Traditional retirement often entails a sudden exit from the workforce, which may lead to a loss of expertise and a sense of purpose for older individuals. Flexible retirement policies offer a more gradual and phased transition into retirement, allowing seniors to reduce their work hours or take on different roles that leverage their experience.
3. **Elderly Care Services:** Residential care facilities, community centers, and home-based care services can provide older individuals with a safe and comfortable environment where their physical and emotional needs are met. This fosters a sense of dignity and well-being among the elderly, promoting active ageing and a higher quality of life.

4. **Public Health Initiatives:** Public health campaigns can raise awareness about the importance of regular exercise, balanced nutrition, and screenings for chronic illnesses. Access to affordable healthcare services, including geriatric care, can address age-related health challenges and improve overall health outcomes. Additionally, community-based wellness programs and social activities can help combat loneliness and isolation, enhancing the holistic well-being of older individuals.

## The Knowledge Economy

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The knowledge economy is an economic system in which the generation, distribution, and application of knowledge and information are central to economic growth and development. In this type of economy, knowledge becomes a critical resource, and investments in education, research, innovation, and technology play a pivotal role in driving economic progress.

### Key Features of the Knowledge Economy:

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1. **Intangible Assets:** The knowledge economy places a higher value on intangible assets such as intellectual property, research and development, and innovative ideas.
2. **Human Capital:** Human capital, referring to the knowledge, skills, and capabilities of individuals, becomes a primary driver of economic success.
3. **Innovation:** Innovation and creativity are essential for producing new knowledge, products, and services, leading to improved productivity and economic growth.
4. **Information and Communication Technology (ICT):** The use of advanced ICT tools and platforms facilitates the rapid dissemination of knowledge and information.
5. **Global Connectivity:** The knowledge economy is characterized by global interconnectedness, enabling the exchange of ideas and expertise across borders.

### Challenges

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1. **Digital Divide:** Ensuring equitable access to education and technology is crucial to prevent a digital divide between different segments of society.
2. **Changing Skill Requirements:** The rapid pace of technological change may render certain skills obsolete while creating demand for new skills.
3. **Intellectual Property Protection:** Strong intellectual property rights are essential to incentivize innovation and protect knowledge-based assets.

### Government Initiatives

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1. **Education Reforms:** Policies that emphasize quality education, vocational training, and digital literacy are essential for preparing the workforce for the knowledge economy.
2. **Research and Development Funding:** Government investments in research and development institutions foster innovation and knowledge creation.
3. **Start-up Support:** Entrepreneurship-friendly policies and support for start-ups encourage innovation and job creation.
4. **Digital Infrastructure:** Expanding digital infrastructure and internet access enhances connectivity and knowledge dissemination.



## Entrepreneurship

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Entrepreneurship plays a pivotal role in human resource development by fostering innovation, economic growth, and job creation. In India, entrepreneurship has gained increasing importance as a driver of economic development and a means to harness the potential of its human resources.

### Key Aspects of Entrepreneurship

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1. **Innovation:** Entrepreneurship often involves innovative ideas, products, or processes that contribute to economic advancement and societal progress.
2. **Risk-Taking:** Entrepreneurs are willing to take calculated risks to bring their ideas to fruition, driving economic dynamism.
3. **Resource Mobilization:** Entrepreneurs secure financial, human, and technological resources to turn their ideas into viable businesses.
4. **Value Creation:** Successful entrepreneurship leads to the creation of new value in terms of goods, services, jobs, and wealth.

### Government Initiatives to Promote Entrepreneurship

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1. **Startup India:** The initiative aims to promote and support startups through funding, tax benefits, and mentorship.
2. **MUDRA Yojana:** Provides financial assistance to micro and small enterprises, promoting entrepreneurship at the grassroots level.
3. **Atal Innovation Mission:** Focuses on fostering innovation and entrepreneurship among students by establishing Atal Tinkering Labs.
4. **Skill Development Initiatives:** Programs like Skill India aim to equip potential entrepreneurs with the necessary skills and knowledge.

## Various Government initiatives for Human Resource Development in India

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### Literacy missions

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1. **Right to Education (RTE) Act:** The Right to Education (RTE) Act, enacted in 2009, is a landmark legislation aimed at providing free and compulsory education for children aged 6 to 14 years. It is a fundamental right under Article 21A of the Indian Constitution and seeks to ensure equitable access to quality education for all children.
2. **Sarva Shiksha Abhiyan (SSA):** Sarva Shiksha Abhiyan (SSA) is a flagship program to achieve the goal of universal elementary education in India.
3. **Digital Saksharta Abhiyan (DISHA):** Digital Saksharta Abhiyan (DISHA) is a program launched to promote digital literacy and bridge the digital divide in India.



## Higher education initiatives

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1. **Rashtriya Uchcharat Shiksha Abhiyan (RUSA)**: Rashtriya Uchcharat Shiksha Abhiyan (RUSA) is a centrally sponsored scheme to enhance the quality of higher education institutions and promote equitable access to higher education across India.
2. **Pradhan Mantri Scholarship Scheme**: The Pradhan Mantri Scholarship Scheme is a government initiative to provide financial assistance and scholarships to meritorious students pursuing higher education.
3. **Establishment of IITs/IIMs/Other premier higher education Institutes**.

## Skill development initiatives

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1. **Skill India Mission**: Launched in 2015, the Skill India Mission aims to create a skilled workforce by providing training and enhancing employability across various sectors.

### Key Features:

- i. **Pradhan Mantri Kaushal Vikas Yojana (PMKVY)**: PMKVY is a flagship scheme under the Skill India Mission that aims to provide skill training to youth for employability.
  - ii. **Recognition of Prior Learning (RPL)**: Assesses and certifies skills acquired through informal learning or work experience. RPL validates the skills of workers who may not have formal education, improving their employment prospects and earning potential.
  - iii. **National Skill Development Corporation (NSDC)**: NSDC is a public-private partnership organization that coordinates and supports skill development initiatives in India.
  - iv. **Skill Development Centers**: Establishes training centers across the country to provide skill training.
2. **ITIs/Polytechnics (Industrial Training Institutes/Polytechnic Institutes)**: ITIs and polytechnics are vocational training institutes that offer practical skills and technical education to students.
  3. **Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY)**: DDU-GKY focuses on rural youth, providing skill training and wage employment opportunities.
  4. **National Apprenticeship Promotion Scheme (NAPS)**: NAPS aims to promote apprenticeship training for skill development and job opportunities. Offers financial incentives to both apprentices and employers to hire apprentices and provide on-the-job training.

## Capacity building initiatives

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1. **Mission Karmayogi**: Mission Karmayogi is a capacity-building program for civil servants in India, aimed at enhancing their effectiveness, skills, and decision-making capabilities.
2. **National Policy on Education (NPE)**: The National Policy on Education (NPE) is a comprehensive framework that guides the development of education in India. It was first formulated in 1968 and revised in 1986 and 1992. The latest revision was approved by the Union Cabinet in 2020, marking the National Education Policy (NEP) 2020.

### Key Features:

- i. **Holistic Approach**: The NEP 2020 adopts a holistic approach to education, emphasizing multidisciplinary learning, critical thinking, and skill development.

- ii. *Early Childhood Care and Education (ECCE)*: The policy recognizes the importance of early childhood education and aims to provide quality ECCE to children aged 3 to 6.
- iii. *School Education*: NEP 2020 focuses on foundational literacy and numeracy, flexible curriculum frameworks, and reducing the curriculum load.
- iv. *Higher Education*: The policy promotes a multidisciplinary approach, autonomy for universities, and the establishment of a National Research Foundation (NRF) for research funding.
- v. *Vocational Education*: NEP 2020 integrates vocational education into mainstream education, promoting skill development and employability.
- vi. *Teacher Training*: The policy emphasizes continuous professional development for teachers to enhance their pedagogical skills.

## Additional Terms and Concepts

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### *Feminization of Labour*

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Feminization of labour refers to the increasing participation of women in the workforce. This can be due to various factors, such as changes in social norms, economic necessity, or policies promoting gender equality.

Example: In recent years, India has seen a rise in the number of women entering the IT sector. Companies are actively hiring women and creating supportive work environments with policies like flexible working hours and maternity leave. This shift reflects the feminization of labour in the tech industry.

### *Reverse Migration*

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Reverse migration occurs when people move back to their place of origin or previous residence after having migrated elsewhere. This can happen due to economic downturns, improved conditions in their home region, or other personal reasons.

Example: During the COVID-19 pandemic, many migrant workers in India left cities like Mumbai and Delhi and returned to their home villages. With job losses and the uncertainty in urban areas, these workers decided to go back to their rural roots, where they could find some support and stability. This movement is an example of reverse migration.

### *Human Capital Flight (Brain Drain)*

---

Human capital flight, commonly known as brain drain, refers to the emigration of highly skilled or educated individuals from one country to another in search of better opportunities. This can result in a loss of talent and skills in the home country.

Example: A talented software engineer from India receives a job offer from a tech company in Silicon Valley, USA. They decide to move to the USA for better career prospects, higher salary, and advanced research opportunities. While this is beneficial for the individual and the receiving country, it represents a brain drain for India, which loses a skilled professional.

### *Glass Ceiling Effect*

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The glass ceiling effect refers to an invisible barrier that prevents certain groups, particularly women and minorities, from advancing to higher levels of leadership and management in an organization, despite having the qualifications and abilities to do so.

Example: An experienced and highly qualified woman working in a financial firm in India finds that, despite her achievements and hard work, she is consistently overlooked for promotions to senior management roles. Her male colleagues with similar or even lesser qualifications are promoted instead. This situation exemplifies the glass ceiling effect, where invisible barriers hinder her career advancement.

## *Digital Nomad*

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A digital nomad is someone who uses technology to work remotely from anywhere in the world. They often travel while working, leveraging the internet to stay connected with their clients or employers.

Example: Bhavika, a management consultant from Delhi decides to travel across the world while working. She takes her laptop and uses Wi-Fi at cafes, co-working spaces, and hotels to complete her projects. Her clients in India and other countries have no idea she's working from different locations, making her a digital nomad.

## *Bootstrapping*

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Bootstrapping is a method of starting and growing a business using personal savings and revenues from the business itself rather than relying on external funding sources such as investors or loans.

Example: A young entrepreneur in Bangalore starts a small online store selling handmade crafts. She uses her personal savings to buy materials and set up the website. As she starts making sales, she reinvests the profits back into the business to expand her product line and improve marketing efforts. She grows her business without seeking outside investment, exemplifying bootstrapping.

## *Freemium Model*

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The freemium model is a business strategy where a company offers basic services for free while charging for premium features or services. The goal is to attract a large user base with the free offering and convert some of them into paying customers.

Example: A music streaming app like Spotify offers a free version that includes ads and limited features. Users can upgrade to a premium subscription to remove ads, download songs for offline listening, and access higher audio quality. The freemium model helps Spotify attract a large number of users while generating revenue from premium subscribers.

## *Regulatory Sandbox*

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A regulatory sandbox is a controlled environment where businesses can test innovative products, services, or business models under the supervision of a regulator. It allows companies to experiment without facing the full set of regulatory requirements, helping regulators understand new technologies and business practices.

Example: The Reserve Bank of India (RBI) creates a regulatory sandbox for fintech companies to test new digital payment solutions. A startup developing a mobile payment app can join the sandbox, where it can operate with relaxed regulatory requirements. This helps the startup refine its product and ensures the RBI can monitor and understand the risks and benefits of the new technology.

## *B2B (Business-to-Business)*

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B2B refers to transactions or business conducted between two companies rather than between a company and individual consumers.

Example: A company that manufactures office furniture in Pune sells its products to other businesses, such as corporate offices, hotels, and co-working spaces. These transactions are examples of B2B, as the furniture manufacturer is selling to other businesses.

### *B2C (Business-to-Consumer)*

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B2C refers to transactions or business conducted directly between a company and individual consumers.

Example: An e-commerce website like Flipkart sells products directly to individual customers. When someone purchases a smartphone from Flipkart for personal use, it is a B2C transaction.

### *Series ABC Funding*

---

Series ABC funding refers to different stages of investment that a startup goes through as it grows. Each round of funding is typically larger and involves more established investors.

- **Series A:** The first significant round of venture capital financing. It usually follows initial seed funding and focuses on scaling the business model.
- **Series B:** This round is aimed at taking the company to the next level, often involving expanding the market reach, growing the team, and developing the product further.
- **Series C and beyond:** These rounds are typically for scaling the company to a larger market, potentially preparing for an initial public offering (IPO) or expanding internationally.

Example: A startup in Delhi that develops an innovative health-tech app secures:

- Series A Funding: ₹10 crore from early-stage venture capitalists to develop the app and grow its user base.
- Series B Funding: ₹50 crore from more prominent investors to expand the team, enhance the app's features, and increase marketing efforts.
- Series C Funding: ₹100 crore to scale the business internationally and prepare for an IPO.

### *Flipping*

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Flipping, in the context of startups, refers to the process of selling a newly founded company or transferring its registration to a more favorable jurisdiction for strategic benefits such as better funding opportunities or tax advantages.

Example: A tech startup initially registered in India might decide to flip to Dubai. This could be because Dubai offers better access to venture capital, a more favorable legal environment for startups, and potential tax benefits.

### *Reverse Flipping*

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Reverse flipping is the process of relocating a company's registration back to its original jurisdiction after having moved it abroad. This may be done to take advantage of new policies, incentives, or market opportunities in the original country.

Example: Suppose the Indian government introduces significant tax incentives and support programs for startups. A company that had previously flipped to the US for better funding opportunities might decide to reverse flip back to India to benefit from these new incentives and a more supportive business environment.

## Previous Years Prelims Questions

1.	<p>Consider the following statements: Human capital formation as a concept is better explained in terms of a process, which enables</p> <p>(1) individuals of a country to accumulate more capital.            (2) increasing the knowledge, skill levels and capacities of the people of the country.            (3) accumulation of tangible wealth.            (4) accumulation of intangible wealth.</p> <p>Which of the statements given above is/are correct?</p> <p>(a) 1 and 2            (b) 2 only            (c) 2 and 4            (d) 1, 3 and 4</p>	2018
2.	<p>To obtain full benefits of demographic dividend, what should India do?</p> <p>(a) Promoting skill development            (b) Introducing more social security schemes            (c) Reducing infant mortality rate            (d) Privatization of higher education</p>	2013

## Previous Years Mains Questions

1.	The increase in life expectancy in the country has led to newer health challenges in the community. What are those challenges and what steps need to be taken to meet them ?	2022
2.	While we found India's demographic dividend, we ignore the dropping rates of employability. What are we missing while doing so? Where will the jobs that India desperately needs come from? Explain.	2014
3.	Distinguish between 'care economy' and 'monetized economy'. How can care economy be brought into monetized economy through women empowerment?	2023

### Answers

1.	C	2.	A
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# 22

CHAPTER

GOVERNMENT  
INSTITUTIONS





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# Chapter 22

## Government Institutions

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India is a large country with a large government. Various institutions deal with different aspects of the economy. Reading about government institutions might seem tricky at first. Don't worry if you don't remember all of it right away. Each time you read this chapter, it'll make more sense. No need to memorize everything—just try to understand the big ideas. Every time you come back to your economics studies, give this a quick read. It'll get clearer with time. Happy reading!

### Monetary Authority

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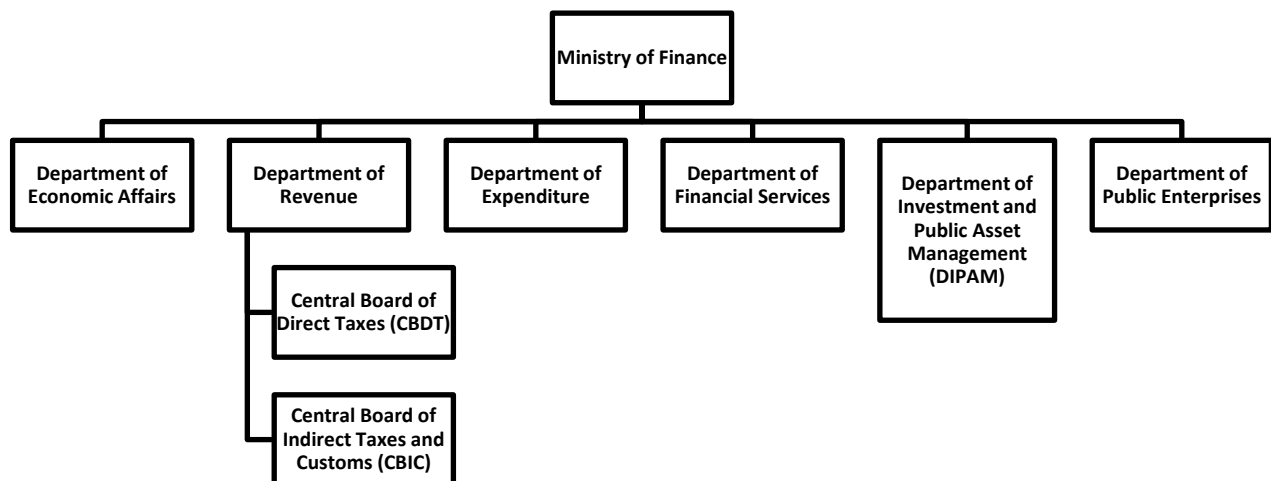
#### Reserve Bank of India (RBI)

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The Reserve Bank of India is the central bank of the country and serves as the main monetary authority in India. We have already covered the roles and functions of RBI in previous chapters.

### Fiscal Authority

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## Ministry of Finance

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The Ministry of Finance is the apex body responsible for the fiscal policy of the country. It plays a crucial role in the overall economic management of the country and ensures that financial resources are mobilized and allocated efficiently.

## Department of Economic Affairs (DEA)

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The DEA concerns itself with the formulation of economic policies and strategies, monitoring macroeconomic indicators, and managing the capital market. A principal responsibility of this department is the preparation and presentation of the Union Budget to the parliament.

### Functions

- Handles issues related to the capital market
- Manages public debt
- Oversees foreign exchange management
- Supervises economic planning

## Department of Revenue

---

This department is responsible for matters relating to all direct and indirect union taxes and enforcement of economic laws through two statutory boards, namely, the Central Board of Direct Taxes (CBDT) and the Central Board of Indirect Taxes and Customs (CBIC).

### *Central Board of Direct Taxes (CBDT)*

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- Deals with matters related to levying and collection of direct taxes
- Provides inputs for policy and planning of direct taxes in India
- Administers direct tax laws through the Income Tax Department

### *Central Board of Indirect Taxes and Customs (CBIC)*

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- Formulates policy concerning the levy and collection of indirect taxes such as customs, central excise duties, and Goods & Services Tax (GST)

## Department of Expenditure

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This department is the custodian of the government's expenditure policy.

### Functions

- Efficient allocation of the financial resources of the union government
- Ensures judicious expenditure management in line with the government's fiscal strategy
- Implements recommendations of both the Finance Commission and the Central Pay Commission, ensuring they align with the nation's fiscal goals

## Department of Investment and Public Asset Management (DIPAM)

---

DIPAM is responsible for the management and disinvestment of the central government's equity in public sector undertakings.

### Functions

- Shapes the government's disinvestment policy, ensuring it aligns with broader economic goals

- Advises on the timing, mode, and quantum of disinvestment, ensuring optimal returns and strategic management of public assets

## Department of Financial Services (DFS)

---

The DFS oversees India's financial institutions.

### Functions

- Ensures the smooth functioning of banks, insurance companies, and pension funds
- Supervises various government initiatives in banking, insurance, and pensions
- Oversees the performance and governance of nationalized banks and the broader insurance sector

This department has ownership over the following central government establishments.

### Regulatory Bodies

- Reserve Bank of India (RBI)
- Securities and Exchange Board of India (SEBI)
- Insurance Regulatory and Development Authority of India (IRDAI)
- Pension Fund Regulatory and Development Authority (PFRDA)

### All India Financial Institutions

- National Bank for Agriculture and Rural Development (NABARD)
- National Housing Bank (NHB)
- Small Industries Development Bank of India (SIDBI)
- Export-Import Bank (EXIM Bank)
- National Bank for Financing Infrastructure and Development (NaBFID) (Effective from April 2021)

### Central Public Sector Undertakings

- *Nationalized Banks*
  - State Bank of India
  - Bank of Baroda
  - Union Bank of India
  - Punjab National Bank
  - Canara Bank
  - Punjab & Sind Bank
  - Indian Bank
  - Bank of Maharashtra
  - Bank of India
  - Central Bank of India
  - Indian Overseas Bank
  - UCO Bank
  - Jammu & Kashmir Bank

- *Regional Rural Banks*

Presently, there are 43 regional rural banks in India (as of April 2020)

- *Nationalized Insurance Companies*
  - Life Insurance Corporation (LIC)
  - General Insurance Corporation of India
  - New India Assurance, etc.
- *Nationalized Financial Market Exchanges*
  - National Stock Exchange of India
  - Bombay Stock Exchange
  - Calcutta Stock Exchange, etc.

## Department of Public Enterprises (DPE)

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The DPE is the nodal department for Central Public Sector Enterprises (CPSEs).

### Functions

- Provides guidelines and policies for the efficient functioning of CPSEs
- Advises the government on key appointments in CPSEs and formulates overarching policies for these enterprises
- Evaluates the performance of CPSEs, ensuring they align with the nation's economic and strategic interests

## Regulatory and Supervisory Bodies

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<u>Securities and Exchange Board of India (SEBI)</u>	
Ministry	Ministry of Finance
Role	Regulates the securities market in India.
Functions	<ol style="list-style-type: none"> <li>1. Protects investors</li> <li>2. Promotes market development</li> <li>3. Regulates mutual funds, stockbrokers, and other intermediaries</li> <li>4. Oversees mergers and acquisitions</li> <li>5. Supervises the issuance and listing of securities</li> </ol>

<u>Insurance Regulatory and Development Authority of India (IRDAI)</u>	
Ministry	Ministry of Finance
Role	Regulates and promotes the insurance and re-insurance industries in India.
Functions	<ol style="list-style-type: none"> <li>1. Protects the interests of policyholders</li> <li>2. Grants registration to insurers and regulates their operations</li> <li>3. Regulates premium rates and terms of insurance</li> </ol>

4. Specifies qualifications, code of conduct, and training for intermediaries and agents
5. Regulates investment of funds by insurance companies
6. Adjudicates disputes between insurers and intermediaries

### Pension Fund Regulatory and Development Authority (PFRDA)

Ministry Ministry of Finance

Role Regulates and promotes the pension sector in India.

- Functions
1. Establishes, develops, and regulates pension funds
  2. Protects the interests of subscribers
  3. Promotes systematic and sustainable income for the elderly
  4. Formulates policies for the National Pension System (NPS)
  5. Ensures the orderly growth of the pension market
  6. Sets performance benchmarks and standards for pension funds
  7. Resolves grievances of affected parties and takes corrective actions

### Telecom Regulatory Authority of India (TRAI)

Ministry Ministry of Communications

Role Regulates the telecommunication sector in India

- Functions
1. Ensures compliance with telecom policies
  2. Issues licenses to telecom operators
  3. Regulates tariffs for telecommunication services
  4. Ensures transparency and fairness in operations
  5. Protects consumer interests
  6. Promotes competition and reduces barriers to entry
  7. Ensures technological advancements in the telecom sector
  8. Addresses grievances and disputes related to telecom services

### Central Drugs Standard Control Organization (CDSCO)

Ministry Ministry of Health and Family Welfare

Role Regulates the safety, efficacy and quality of drugs, cosmetics and medical devices in

	India.
Functions	<ol style="list-style-type: none"> <li>1. Approves drugs and conducts clinical trials</li> <li>2. Sets quality standards for drugs, cosmetics, and medical devices</li> <li>3. Grants licenses for the manufacture and sale of drugs and cosmetics</li> <li>4. Regulates the import and export of drugs and cosmetics</li> <li>5. Monitors and evaluates the adverse effects of drugs</li> <li>6. Ensures compliance with pharmacovigilance guidelines</li> <li>7. Collaborates with other international regulatory agencies</li> </ol>

	<u>Central Pollution Control Board (CPCB)</u>
Ministry	Ministry of Environment, Forest and Climate Change
Role	Regulates and monitors pollution in India.
Functions	<ol style="list-style-type: none"> <li>1. Monitors air and water quality across the country</li> <li>2. Sets industrial waste standards</li> <li>3. Advises the central government on pollution control policies and strategies</li> <li>4. Coordinates actions with state pollution control boards</li> <li>5. Provides technical assistance and guidance to state boards</li> <li>6. Conducts research and development on pollution control</li> <li>7. Organizes and promotes anti-pollution awareness programs</li> <li>8. Establishes and reviews standards for the prevention and control of pollution</li> </ol>

	<u>Food Safety and Standards Authority of India (FSSAI)</u>
Ministry	Ministry of Health and Family Welfare
Role	Ensures that food products in India are safe and adheres to quality standards.
Functions	<ol style="list-style-type: none"> <li>1. Develops standards for food products</li> <li>2. Regulates the manufacture, storage, distribution, sale, and import of food products</li> <li>3. Provides scientific advice and technical support to the central government</li> <li>4. Collects data on food contamination and conducts risk assessment</li> <li>5. Promotes awareness about food safety and nutrition</li> <li>6. Ensures consistent application of food standards across the country</li> <li>7. Addresses grievances related to food safety</li> <li>8. Licenses and oversees food businesses</li> </ol>



### Bureau of Indian Standards (BIS)

Ministry	Ministry of Consumer Affairs, Food and Public Distribution
Role	National Standards Body of India responsible for standardization, marketing and quality certification of goods.
Functions	<ol style="list-style-type: none"><li>1. Formulates national standards for a wide range of products</li><li>2. Provides certification to products that meet set standards through its hallmarking and certification schemes</li><li>3. Tests and calibrates products in its laboratories to ensure quality</li><li>4. Promotes and represents Indian standards on international platforms</li><li>5. Ensures consumer goods, especially those that directly impact health and safety, meet the necessary standards</li><li>6. Conducts surveillance checks to ensure certified products maintain quality</li><li>7. Handles grievances related to the quality of certified products</li><li>8. Provides registration to manufacturers under the BIS Act</li></ol>

### Central Electricity Authority (CEA)

Ministry	Ministry of Power
Role	Supervises and advises on matters related to electricity generation, transmission, distribution, and utilization in India.
Functions	<ol style="list-style-type: none"><li>1. Formulates technical standards and specifications for the construction of electrical plants, electric lines, and connectivity to the grid</li><li>2. Advises the government on matters related to the National Electricity Policy and tariff setting</li><li>3. Coordinates with state electricity boards and utilities</li><li>4. Conducts investigations and studies related to the efficiency of the electricity system</li><li>5. Monitors the implementation of power projects</li><li>6. Provides technical and managerial assistance to utilities</li><li>7. Ensures grid stability and promotes the integrated operation of the power system</li><li>8. Collects and maintains data on electricity generation, transmission, and distribution</li></ol>

### Bureau of Energy Efficiency (BEE)

Ministry	Ministry of Power
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Role	Promotes energy efficiency and conservation across various sectors of the economy.
Functions	<ol style="list-style-type: none"> <li>1. Formulates policies and strategies for reducing energy intensity in the economy</li> <li>2. Develops and promotes energy efficiency standards and labeling for appliances</li> <li>3. Establishes systems and procedures to measure, monitor, and verify energy efficiency results in different sectors</li> <li>4. Coordinates with industries and businesses to adopt energy-efficient practices</li> <li>5. Implements the Energy Conservation Building Code (ECBC)</li> <li>6. Conducts public awareness campaigns on energy efficiency</li> <li>7. Collaborates with state-level agencies to implement energy-saving measures</li> <li>8. Monitors and evaluates the impact of energy efficiency initiatives</li> </ol>

### National Health Authority (NHA)

Ministry	Ministry of Health and Family Welfare
Role	Implements and manages the government's health insurance schemes, primarily the Pradhan Mantri Jan Arogya Yojana (PMJAY).
Functions	<ol style="list-style-type: none"> <li>1. Formulates policies and strategies for the effective implementation of PMJAY and other health insurance schemes</li> <li>2. Coordinates with state governments and other stakeholders for scheme rollout</li> <li>3. Ensures beneficiaries receive their health entitlements</li> <li>4. Develops the technological infrastructure for the seamless operation of the schemes</li> <li>5. Monitors and evaluates the performance of the schemes</li> <li>6. Addresses grievances related to the schemes</li> <li>7. Promotes awareness about the schemes among the public</li> <li>8. Ensures quality and affordability of healthcare services under the schemes</li> </ol>

### Competition Commission of India (CCI)

Ministry	Ministry of Corporate Affairs
Role	Ensures fair competition in India by preventing anti-competitive practices.
Functions	<ol style="list-style-type: none"> <li>1. Prohibits anti-competitive agreements and practices</li> <li>2. Prevents abuse of dominant position by enterprises</li> <li>3. Regulates mergers and acquisitions to ensure they don't adversely affect competition</li> <li>4. Conducts investigations into suspected anti-competitive practices</li> <li>5. Imposes penalties on entities found violating competition norms</li> <li>6. Advocates for competition policies and promotes awareness</li> </ol>

7. Advises the government on competition issues
8. Engages in research and publishes studies on competition matters

## Labeling Requirements

In India, several regulatory authorities mandate labeling requirements for products under their purview to ensure that consumers are well-informed and protected.

Regulatory Authority	Under Ministry	Product	Labeling Requirements
Food Safety and Standards Authority of India (FSSAI)	Ministry of Health and Family Welfare	Food Products	<ul style="list-style-type: none"> <li>✓ Product name</li> <li>✓ List of ingredients</li> <li>✓ Nutritional information including energy, protein, carbohydrate, fat, etc.</li> <li>✓ Net quantity</li> <li>✓ Date of manufacture and expiry</li> <li>✓ Country of origin for imported food</li> <li>✓ FSSAI logo and license number</li> <li>✓ Vegetarian/non-vegetarian indicator</li> <li>✓ Instructions for use, if necessary</li> </ul>
Bureau of Indian Standards (BIS)	Ministry of Consumer Affairs, Food and Public Distribution	Various products (e.g. electronics, jewelry)	<ul style="list-style-type: none"> <li>✓ BIS hallmark/standard mark</li> <li>✓ License number</li> <li>✓ Grade of the product, if applicable</li> <li>✓ Country of origin</li> <li>✓ Manufacturer's details including address and name</li> </ul>
Central Drugs Standard Control Organization (CDSCO)	Ministry of Health and Family Welfare	Pharmaceuticals & Cosmetics	<ul style="list-style-type: none"> <li>✓ Generic name and brand name</li> <li>✓ Name and address of the manufacturer</li> <li>✓ Batch number, manufacturing date, and expiry date</li> <li>✓ Net content</li> <li>✓ Directions for use and</li> </ul>

			warnings, if any ✓ List of active and inactive ingredients
Directorate General of Foreign Trade (DGFT)	Ministry of Commerce and Industry	Imported & Exported Goods	✓ Country of origin ✓ Importer/exporter name and address ✓ Product description ✓ Batch or lot number ✓ Date of manufacture and expiry, if applicable
Bureau of Energy Efficiency (BEE)	Ministry of Power	Energy-efficient Products	✓ BEE star label with energy efficiency rating ✓ Year of manufacture ✓ Product's energy consumption details
Telecom Regulatory Authority of India (TRAI)	Ministry of Communications	Telecom Equipment	✓ Name and model of the product ✓ Manufacturer's name and address ✓ Batch or lot number ✓ Date of manufacture ✓ Technical specifications
Central Insecticides Board & Registration Committee (CIBRC)	Ministry of Agriculture & Farmers Welfare	Pesticides	✓ Brand name ✓ Chemical composition ✓ Name and address of the manufacturer ✓ Date of manufacture and expiry ✓ Directions for use and storage ✓ Warning labels and first-aid measures
Textile Committee	Ministry of Textiles	Textiles	✓ Fiber composition ✓ Care instructions including washing and drying ✓ Size ✓ Country of origin ✓ Manufacturer's name and address
Automotive Industry Standards (AIS)	Ministry of Road Transport and Highways	Vehicles	✓ Emission norms compliance ✓ Safety standards compliance ✓ Vehicle identification number ✓ Detailed Labeling

			Requirements ✓ Manufacturer's name and address
Department of Legal Metrology	Ministry of Consumer Affairs, Food and Public Distribution	Packaged Commodities	✓ Name and address of the manufacturer, packer, and importer ✓ Common or generic names of the commodity ✓ Net quantity in metric units ✓ Date of manufacture or packaging ✓ Maximum retail price inclusive of all taxes ✓ Customer care details including phone and email

## Trade, Industry, and Investment Promotion Bodies

<u>Department for Promotion of Industry and Internal Trade (DPIIT)</u>	
Ministry	Ministry of Commerce and Industry
Role	Facilitates and promotes the development of industry and internal trade in India
Functions	<ol style="list-style-type: none"> <li>1. Formulates and implements industrial policy and strategies.</li> <li>2. Promotes industrial development and investment.</li> <li>3. Oversees the establishment of Special Economic Zones (SEZs).</li> <li>4. Facilitates ease of doing business initiatives.</li> <li>5. Manages foreign direct investment (FDI) policy and promotion.</li> <li>6. Regulates intellectual property rights - patents, trademarks, industrial designs, and geographical indications.</li> <li>7. Promotes internal trade and consumer welfare.</li> <li>8. Manages initiatives related to the startup ecosystem in India.</li> <li>9. Oversees industrial cooperation with other countries.</li> <li>10. Regulates standards for goods and services.</li> </ol>

<u>Directorate General of Foreign Trade (DGFT)</u>	
Ministry	Ministry of Commerce and Industry

Role	Regulates and promotes foreign trade activities in India.
Functions	<ol style="list-style-type: none"> <li>1. Formulates and implements the foreign trade policy of India.</li> <li>2. Grants licenses for exports and imports.</li> <li>3. Promotes India's exports.</li> <li>4. Implements export promotion schemes.</li> <li>5. Regulates trade barriers and tariffs.</li> <li>6. Facilitates trade through various trade agreements and treaties.</li> <li>7. Addresses grievances of exporters and importers.</li> <li>8. Publishes various foreign trade-related reports and data.</li> <li>9. Coordinates with different trade bodies and organizations for trade-related matters.</li> </ol>

<u>Ministry of Corporate Affairs</u>	
Role	Regulates corporate sector affairs in accordance with the law to promote corporate governance, transparency, and accountability.
Functions	<ol style="list-style-type: none"> <li>1. Supervises the Companies Act, Limited Liability Partnership Act, and other related acts and rules.</li> <li>2. Ensures transparent and efficient corporate regulation in India.</li> <li>3. Registers companies and LLPs in India.</li> <li>4. Oversees the functioning of the National Company Law Tribunal (NCLT) and the Insolvency and Bankruptcy Code.</li> <li>5. Promotes corporate governance and best practices in the corporate sector.</li> <li>6. Handles issues related to competition through the Competition Commission of India (CCI).</li> <li>7. Ensures corporate compliance through e-Governance initiatives.</li> </ol>

<u>Ministry of Micro, Small and Medium Enterprises (MSME)</u>	
Role	Promotes the growth and development of micro, small, and medium enterprises in India.
Functions	<ol style="list-style-type: none"> <li>1. Formulates policies, programs, and projects to support and assist MSMEs.</li> <li>2. Promotes innovation, entrepreneurship, and skill development among MSMEs.</li> <li>3. Provides financial assistance, subsidies, and incentives to MSMEs.</li> <li>4. Supports technology upgradation and modernization of MSMEs.</li> <li>5. Promotes export of MSME products.</li> <li>6. Conducts capacity-building programs and workshops for MSME stakeholders.</li> <li>7. Addresses grievances and offers advisory services to MSMEs.</li> </ol>

## Development and Planning Agencies

### NITI Aayog

We have already covered NITI Aayog in detail.

## Social Welfare and Labour Institutions

Name	Ministry/Department	Role	Functions
Ministry of Labour and Employment	Government of India	Oversee labor welfare and employment in India.	<ul style="list-style-type: none"><li>• Formulates policies on labor and employment.</li><li>• Works on wage policies and matters related to employment.</li><li>• Ensures the welfare of workers and safeguards their rights.</li><li>• Regulates employment and training.</li><li>• Oversees industrial relations and disputes.</li></ul>
Labour Bureau	Ministry of Labour and Employment	Statistical analysis and research on labor economics.	<ul style="list-style-type: none"><li>• Collects and analyzes data on wages, employment, and industrial relations.</li><li>• Publishes reports and indices like the CPI for Industrial Workers (CPI-IW) and CPI for Agricultural Labourers and Rural Labourers (CPI-AL/RL).</li><li>• Conducts surveys and research on labor-related matters.</li></ul>
Ministry of Women and Child Development	Government of India	Ensures the development and welfare of women and children.	<ul style="list-style-type: none"><li>• Formulates policies and programs for women and children.</li><li>• Promotes and ensures the rights of women and children.</li><li>• Implements schemes for the welfare of women and children.</li></ul>
Rashtriya Mahila Kosh	Ministry of Women and Child Development	Provides microfinance services to women.	<ul style="list-style-type: none"><li>• Offers credit for livelihood activities and family needs.</li><li>• Promotes and supports women's Self Help Groups (SHGs).</li><li>• Provides financial assistance for women's development.</li></ul>
Anganwadi Centers	Ministry of Women and Child Development	Provides basic health care in Indian villages.	<ul style="list-style-type: none"><li>• Offers health and nutrition education.</li><li>• Provides basic health services and immunization.</li><li>• Ensures pre-school non-formal education.</li><li>• Supplies nutrition-based meals to children and pregnant women.</li></ul>

## Statistical and Research Institutions

Name	Ministry/Department	Role	Functions
Central Statistical Office(CSO)	Ministry of Statistics and Programme Implementation	Responsible for coordination of statistical activities in India and evolving & maintaining statistical standards.	<ul style="list-style-type: none"> <li>Compiles and releases national accounts statistics.</li> <li>Conducts annual surveys of industries.</li> <li>Provides statistical expertise and advice to government departments.</li> </ul>
National Sample Survey Office (NSSO)	Ministry of Statistics and Programme Implementation	Conducts large- scale sample surveys across India.	<ul style="list-style-type: none"> <li>Undertakes socio-economic surveys.</li> <li>Collects data on rural and urban prices.</li> <li>Provides periodic surveys on consumer expenditure, employment, health, and education.</li> <li>Assists in improving the quality of statistical data.</li> </ul>
National Sample Survey Office (NSSO) has been merged with the Central Statistics Office (CSO) to form the National Statistical Office (NSO).			
Indian Council of Agricultural Research (ICAR)	Ministry of Agriculture and Farmers Welfare	Conducts research and development in agriculture.	<ul style="list-style-type: none"> <li>Coordinates agricultural research &amp; education.</li> <li>Provides leadership in frontier areas of science.</li> <li>Develops new technologies to boost agricultural productivity.</li> <li>Offers financial support to institutions for agricultural research.</li> <li>Facilitates research in fisheries, horticulture, and animal sciences.</li> <li>Provides training in agricultural sciences.</li> </ul>

## Public Enterprises and State-Owned Entities

Name	Ministry/Department	Role	Functions
Public Sector Banks(PSBs)	Ministry of Finance	Provide banking and financial services to the public.	<ul style="list-style-type: none"> <li>Offer various banking services like savings, loans, and investments.</li> <li>Implement government- sponsored schemes.</li> <li>Support economic development by providing credit to industries and agriculture.</li> <li>Promote financial inclusion.</li> </ul>
Public Sector Undertakings (PSUs)	Various Ministries depending on the sector	Operate commercial activities on	<ul style="list-style-type: none"> <li>Produce goods and services for the public.</li> <li>Generate revenue for the government.</li> <li>Implement government policies in specific</li> </ul>



		behalf of the government.	sectors. <ul style="list-style-type: none"> <li>• Provide employment and contribute to economic growth.</li> </ul>
Indian Railways	Ministry of Railways	Provides rail transport services.	<ul style="list-style-type: none"> <li>• Operate passenger and freight trains across India.</li> <li>• Maintain and develop railway infrastructure.</li> <li>• Implement projects to enhance rail connectivity.</li> <li>• Promote tourism through luxury trains.</li> <li>• Ensure safety and security of rail operations.</li> </ul>
Food Corporation of India(FCI)	Ministry of Consumer Affairs, Food and Public Distribution	Ensures food security in India.	<ul style="list-style-type: none"> <li>• Procures food grains from farmers at support prices.</li> <li>• Stores and maintains buffer stock of food grains.</li> <li>• Distributes food grains through the public distribution system.</li> <li>• Supports price stabilization measures.</li> <li>• Manages government's food policy.</li> </ul>

## "Maharatna", "Navratna", and "Miniratna"

The terms "Maharatna", "Navratna", and "Miniratna" refer to classifications given to the top-performing Public Sector Undertakings (PSUs) in India. These classifications are based on the performance of these companies and grant them enhanced autonomy and privileges in decision-making. Here's a breakdown:

### Maharatna

- **Criteria:** A company must have an average annual net profit of over Rs.5,000 crore in the last 3 years, a net worth of Rs. 15,000 crore, and a turnover of Rs. 25,000 crore in the last 3 years.
- **Privileges:** These companies have enhanced powers for investment in projects (uptoRs.5,000 crore without government approval).

Maharatnas	Ministry/Department	Functions
Bharat Heavy Electricals Limited (BHEL)	Ministry of Heavy Industries and Public Enterprises	Design, engineering, construction, testing, commissioning, and servicing for a diverse range of products and services across various industries.
Bharat Petroleum Corporation Limited (BPCL)	Ministry of Petroleum and Natural Gas	Operates refineries in Bina, Kochi, and Mumbai; downstream oil production.
Coal India Limited (CIL)	Ministry of Coal	Largest government-owned coal producer;

		seventh largest employer in India.
GAIL(India)Limited	Ministry of Petroleum and Natural Gas	Natural gas, liquid hydrocarbon, LPG transmission, petrochemical, city gas distribution, renewable energy, exploration and production, petrochemicals, GAILTEL, and electricity generation.
Hindustan Petroleum Corporation Limited (HPCL)	Ministry of Petroleum and Natural Gas	Subsidiary of ONGC; downstream oil production.
Indian Oil Corporation Limited (IOCL)	Ministry of Petroleum and Natural Gas	Largest government-owned oil producer; oversees refining, distribution, and marketing of petroleum products.
NTPC Limited	Ministry of Power	Generation and distribution of electricity to State Electricity Boards in India.
Oil and Natural Gas Corporation Limited(ONGC)	Ministry of Petroleum and Natural Gas	Exploration, development, and production of crude oil and natural gas.
Power Finance Corporation Ltd. (PFC)	Ministry of Power	Financial backbone of the Indian power sector; offers loans for power projects.
Power Grid Corporation of India Limited	Ministry of Power	Transmission of bulk power across various states in India.
REC Limited	Ministry of Power	Finances and supports power projects throughout India.
Steel Authority of India Limited(SAIL)	Ministry of Steel	Largest government-owned steel producer in India.
Oil India Limited (OIL)	Ministry of Petroleum and Natural Gas	Exploration, development, and production of crude oil and natural gas; transportation of crude oil and production of LPG.

## Navratna

- **Criteria:** A Miniratna Category-1 company, with a score of 60 (out of 100), based on six parameters which include net profit, net worth, total manpower cost, total cost of production, cost of services, PBDIT (Profit Before Depreciation, Interest, and Taxes), capital employed, etc.
- **Privileges:** These companies have greater autonomy in investment decisions (up to Rs. 1,000 crore or 15% of their net worth on a single project without government approval).
- **Examples:** Bharat Electronics Limited, Hindustan Aeronautics Limited, Mahanagar Telephone Nigam Limited, National Aluminium Company, NMDC Limited, Oil India Limited, etc.

## Miniratna

- **Criteria:** Divided into Category-I and Category-II. Category-I companies have made profits continuously for the last three years and have a positive net worth. Category-II companies have made a profit for the last year and have a positive net worth.
- **Privileges:** Category-I companies can invest up to Rs. 500 crore or equal to their net worth, whichever is lower, without government approval. Category-II companies have lesser autonomy compared to Category-I.

- **Examples of Category-I:** Airports Authority of India, Cotton Corporation of India, Hindustan Newsprint Limited, etc.
- **Examples of Category-II:** Bharat Pumps & Compressors, Broadcast Engineering Consultants India, Central Mine Planning & Design Institute, etc.

Above classifications are meant to incentivize better performance among PSUs and grant them the autonomy they need to compete effectively in the market.

Term	Explanation
Average Annual Net Profit	The mean profit earned by a company over a specific period, typically a year, after deducting all expenses, taxes, and costs. It's calculated by summing up the net profits of each year and dividing by the number of years.
Net Worth	The total assets minus total liabilities of an individual or a company. It represents the ownership interest of shareholders (in case of a corporation) or the value of assets one has after paying off liabilities (in case of an individual).
Turnover	The total sales generated by a business in a specific period, typically a year. It's a measure of a company's operational performance and its ability to generate sales/revenues.

## Education and Skill Development

Name	Ministry/Department	Role	Functions
University Grants Commission (UGC)	Ministry of Education	Regulates and maintains standards in higher education.	<ul style="list-style-type: none"> <li>• Provides recognition to universities in India.</li> <li>• Allocates and disburses grants to universities and colleges.</li> <li>• Sets and maintains standards of teaching, examination, and research.</li> <li>• Advises the government on university affairs.</li> </ul>
National Council of Educational Research and Training (NCERT)	Ministry of Education	Academic resource organization.	<ul style="list-style-type: none"> <li>• Develops curriculum and instructional materials.</li> <li>• Conducts educational research.</li> <li>• Provides training in educational research and teaching.</li> <li>• Offers advice and support to the government on school education.</li> </ul>
Central Board of Secondary Education (CBSE)	Ministry of Education	National level board of education.	<ul style="list-style-type: none"> <li>• Conducts public examinations for Classes 10 and 12.</li> <li>• Grants affiliation to schools.</li> <li>• Sets and maintains academic standards.</li> <li>• Develops curriculum and study materials.</li> </ul>
National Skill Development	Not-for-profit company under the	Promotes skill	<ul style="list-style-type: none"> <li>• Funds and supports skill training initiatives.</li> </ul>

Corporation (NSDC)	Companies Act. NSDC was set up by Ministry of Finance as Public Private Partnership (PPP) model. The Government of India Through Ministry of Skill Development & Entrepreneurship (MSDE) holds 49% of the share capital of NSDC, while the private sector has the balance 51% of the share capital.	development.	<ul style="list-style-type: none"> <li>• Partners with private institutions for skill training.</li> <li>• Sets standards for skill training.</li> <li>• Implements government's skill development schemes.</li> </ul>
Ministry of Skill Development and Entrepreneurship	Government of India	Coordinates skill development efforts.	<ul style="list-style-type: none"> <li>• Formulates policies for skill development.</li> <li>• Establishes standards and frameworks.</li> <li>• Promotes entrepreneurship.</li> <li>• Implements the National Skill Development Mission.</li> </ul>
National Skill Development Agency(NSDA)	Autonomous body under Ministry of Skill Development and Entrepreneurship	Coordinates and harmonizes skill development efforts.	<ul style="list-style-type: none"> <li>• Integrates efforts of various ministries related to skill development.</li> <li>• Evaluates existing skill development schemes.</li> <li>• Anchors the National Skills Qualifications Framework (NSQF).</li> <li>• Conducts research on skill development.</li> </ul>

## Technology and Communication

Name	Ministry/Department	Role	Functions
Ministry of Electronics and Information Technology	Government of India	Oversee the development and implementation of IT and electronic policies.	<ul style="list-style-type: none"> <li>• Formulates policies related to IT and electronics.</li> <li>• Promotes e- Governance for empowering citizens.</li> <li>• Encourages the growth of the IT industry.</li> <li>• Ensures cyber security and promotes the use of IT in various sectors.</li> </ul>
National Informatics Centre (NIC)	Ministry of Electronics and Information Technology	Provides technology support to	<ul style="list-style-type: none"> <li>• Develops and manages government websites and online services.</li> <li>• Offers IT support to central and state</li> </ul>

		governance services.	governments. <ul style="list-style-type: none"> <li>Provides network backbone for e-Governance.</li> <li>Develops software solutions for government departments.</li> </ul>
Centre for Development of Advanced Computing(C-DAC)	Ministry of Electronics and Information Technology	Advanced computing and IT research.	<ul style="list-style-type: none"> <li>Conducts R&amp;D in IT and electronics.</li> <li>Develops advanced computing solutions.</li> <li>Offers training in IT and computer languages.</li> <li>Works on projects like PARAM supercomputers.</li> </ul>
Indian Computer Emergency Response Team (CERT-In)	Ministry of Electronics and Information Technology	National cyber security agency.	<ul style="list-style-type: none"> <li>Responds to cyber security threats.</li> <li>Enhances India's cyber security capabilities.</li> <li>Issues guidelines and advisories on cyber security.</li> <li>Coordinates cyber security efforts nationally.</li> </ul>
Unique Identification Authority of India (UIDAI)	Ministry of Electronics and Information Technology	Provides Aadhaar, a unique identification for residents.	<ul style="list-style-type: none"> <li>Manages the Aadhaar scheme.</li> <li>Ensures security of Aadhaar data.</li> <li>Provides authentication services.</li> <li>4. Develops the policy, procedure, and system for Aadhaar.</li> </ul>
Department of Telecommunications	Ministry of Communications	Regulates and develops the telecommunication sector.	<ul style="list-style-type: none"> <li>Grants licenses for telecom services.</li> <li>Manages spectrum allocation.</li> <li>Ensures telecom service quality.</li> <li>Formulates policies and standards for telecom services.</li> </ul>
Department of Posts	Ministry of Communications	Provides postal services.	<ul style="list-style-type: none"> <li>Manages the postal system in India.</li> <li>Offers mail parcel services, retail services, and more.</li> <li>Provides financial services like savings accounts, insurance, and remittance.</li> <li>Promotes e-commerce by providing logistics support.</li> </ul>

## Agriculture and Food

Name	Ministry/Department	Role	Functions
Commission for Agricultural Costs and Prices(CACP)	Ministry of Agriculture and Farmers Welfare	Advises on price policy for agricultural	<ul style="list-style-type: none"> <li>Recommends minimum support prices (MSP).</li> <li>Reviews cost of production and other relevant factors.</li> </ul>

		commodities.	<ul style="list-style-type: none"> <li>• Advises on price stabilization measures.</li> </ul>
National Agricultural Cooperative Marketing Federation of India Ltd. (NAFED)	Ministry of Agriculture and Farmers Welfare	Promotes cooperative marketing of agricultural produce.	<ul style="list-style-type: none"> <li>• Procures agricultural produce.</li> <li>• Helps farmers get a fair price.</li> <li>• Implements intervention operations during price fluctuations.</li> </ul>
National Dairy Development Board (NDDDB)	Ministry of Fisheries, Animal Husbandry and Dairying	Develops the dairy sector.	<ul style="list-style-type: none"> <li>• Promotes and organizes dairy cooperative societies.</li> <li>• Implements dairy development programs.</li> <li>• Conducts research and training in dairying.</li> </ul>
Small Farmers Agri- Business Consortium (SFAC)	Ministry of Agriculture and Farmers Welfare	Promotes agribusiness for small farmers.	<ul style="list-style-type: none"> <li>• Facilitates agri- business ventures.</li> <li>• Links small farmers to agricultural value chains.</li> <li>• Provides credit guarantee to agri-ventures.</li> </ul>
Ministry of Consumer Affairs, Food and Public Distribution	Government of India	Ensures food security and protects consumer rights.	<ul style="list-style-type: none"> <li>• Implements the Public Distribution System (PDS).</li> <li>• Regulates production, supply, and distribution of essential commodities.</li> <li>• Promotes consumer awareness and protection.</li> </ul>
Ministry of Food Processing Industries	Government of India	Promotes the food processing industry.	<ul style="list-style-type: none"> <li>• Formulates and implements food processing policies.</li> <li>• Promotes investment in the food processing sector.</li> <li>• Provides financial assistance for food processing activities.</li> </ul>
Agricultural and Processed Food Products Export Development Authority (APEDA)	Ministry of Commerce and Industry	Develops and promotes the export of agri-products.	<ul style="list-style-type: none"> <li>• Promotes exports of agricultural and processed food products.</li> <li>• Provides financial assistance and guidelines.</li> <li>• Conducts surveys and market studies.</li> </ul>

## Tribunals

Several tribunals have been established to address specific concerns and disputes related to various sectors of the economy.

<b>Tribunal</b>	<b>Concerned Area</b>	<b>Primary Role</b>
National Company Law Tribunal (NCLT)	Company-related matters	Address company disputes, insolvency, and bankruptcy cases
National Company Law Appellate Tribunal(NCLAT)	Appeals from NCLT	Handle appeals against decisions of NCLT, including those related to insolvency and competition matters
Competition Appellate Tribunal (COMPAT)	Anti-competitive practices	Handle disputes arising from decisions of the Competition Commission of India (Now functions transferred to NCLAT)
Securities Appellate Tribunal (SAT)	Securities and capital market	Address appeals against decisions made by SEBI
Debt Recovery Tribunal (DRT)	Banking and finance	Focus on non-performing assets and debt recovery
Appellate Tribunal for Electricity (APTEL)	Electricity sector	Resolve disputes related to the electricity sector
Telecom Disputes Settlement and Appellate Tribunal (TDSAT)	Telecom sector	Address grievances and disputes in telecom
Real Estate Appellate Tribunal	Real estate	Address appeals against decisions by the Real Estate Regulatory Authority
National Green Tribunal (NGT)	Environment	Handle economic matters related to environmental damage and compensation
Customs, Excise, and Service Tax Appellate Tribunal (CESTAT)	Taxation	Deal with disputes related to customs, excise duties, and service tax
Income Tax Appellate Tribunal (ITAT)	Income Tax	Address appeals against the decisions of the Commissioner of Income Tax

## Previous Years Prelims Questions

1.	In India, which one of the following is responsible for maintaining price stability by controlling inflation?  a) Department of Consumer Affairs b) Expenditure Management Commission c) Financial Stability and Development Council d) Reserve Bank of India	2022
2.	In India, which one of the following compiles information on industrial disputes, closures, retrenchments and lay-offs in factories employing workers?  a) Central Statistics Office b) Department for Promotion of Industry and Internal Trade c) Labour Bureau d) National Technical Manpower Information System	2022

### Answers

1.	D	2.	C
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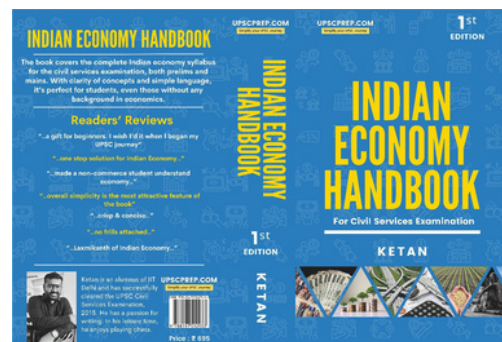
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