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Volume - 7

Economy of India



Economy of India

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1 CHAPTER

National Income



- **National income:** The total value of **final goods and services** produced **by** the normal **residents** during an accounting **year, after adjusting depreciation.**
 - It is Net National Product (NNP) at Factor Cost (FC)
 - It does not include taxes, depreciation and non-factor inputs (raw materials)
- Also **useful in determining the country's progress.**
- It Includes: **Wages, interest, rent, and profit** received by components of production such as: **labour, capital, land, and entrepreneurship**
- **Domestic Income:** Total value of final **goods and services produced within a domestic territory** during an accounting year, **after adjusting depreciation.**
 - **It is NDP at Factor Cost.**
- Both **NNP and NDP** can be **measured** at **constant prices** (real income) or **market prices** (nominal income)
- **National income:** Domestic Income + NFIA

Some Important Terms	
Factor Cost	<ul style="list-style-type: none"> ● total cost of all the factors of production consumed or used in producing a good or service.
Basic Price	<ul style="list-style-type: none"> ● amount a producer receives from a purchaser for a unit of a good or service provided as output, minus any tax due and any subsidy due on that unit as a result of its production or sale.
Market Price	<ul style="list-style-type: none"> ● price at which a thing is sold in the market. ● covers wages, rent, interest, input prices, profit, & other costs of production. ● also covers government-imposed taxes & government-provided producer subsidies.
Depreciation	<ul style="list-style-type: none"> ● The wear and tear of capital assets ● Capital consumption allowance - another term for depreciation.
Transfer Payments	<ul style="list-style-type: none"> ● A monetary payment for which no goods or services are exchanged. ● Efforts by local, state, and federal governments to redistribute money to individuals in need are usually referred to as transfer payments. ● Transfer payments such as Social Security and unemployment insurance are popular in the United States. ● Transfer payments are not typically used to describe corporate bailouts and subsidies.

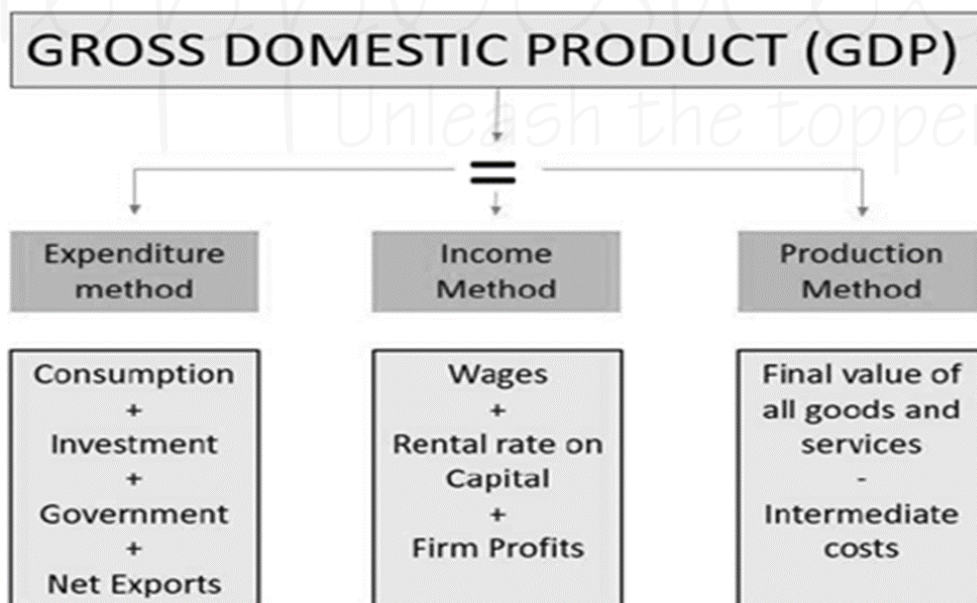
Aspects of National Income

Gross Domestic Product (GDP)

- Total value of **goods and services produced in a country**.
- Economic indicator used to **gauge a country's economic growth**.
- Estimated at **regular periods** (such as quarterly, yearly).
 - For India it is from **1st April to 31st March**.
- **Production area for calculation of GDP** includes
 - A **country's geographical borders** including its **Exclusive Economic Zones (EEZ)** (up to 200 nautical miles or 360 kms)
 - A **country's embassy** in different nations
 - **Production in moving vehicles** like ships, aircraft, etc.
- **Goods included:** all final goods and services **produced by the normal residents and non-residents in the domestic territory** of the country
 - does **not include Net Factor Income from Abroad (NFIA)**
- **Calculated by Central Statistics Organization**, Ministry of Statistics and Programme.
- 'Quantitative concept' and indicates **internal strength of the economy**.
- **used by the IMF & World Bank in comparative analyses** of member economies.

$$\text{GDP} = \text{consumption} + \text{investment} + \text{government spending} + \text{exports} - \text{imports}$$

Methods for Calculating GDP:



Nominal GDP	Real GDP
<ul style="list-style-type: none"> ● total financial business value produced inside the country. ● Without Inflation adjusted. 	<ul style="list-style-type: none"> ● GDP metric adjusted: With changes in the general price level. ● Inflation-adjusted

<ul style="list-style-type: none"> ● At Current year prices. ● High Worth ● Compares quarters of a year. 	<ul style="list-style-type: none"> ● At regular prices ● Low Worth ● Compares two or more FYs
<p>Nominal GDP = Current Year Production × Current Year Price</p>	<p>Real GDP = Current Year Production × Base Year Price</p>
<ul style="list-style-type: none"> ● does not truly indicate the real performance of economy 	<ul style="list-style-type: none"> ● only change in real production of goods and services is captured.

Gross Value Added (GVA)

- **economic productivity metric** that measures contribution of a corporate subsidiary, company, or municipality to an economy, producer, sector, or region.
- **used to adjust GDP** and measure how much money a product or service has contributed toward meeting a company's fixed costs.

GVA = GDP + Subsidies - Taxes

Net Domestic Product (NDP)

- **Net worth** of all goods and services **generated inside a country's geographic borders.**
- **Value of depreciation** of national capital assets such as **machinery, houses, and cars** is **subtracted** from the GDP to calculate NDP
- **Other considerations:** such as asset **obsolescence and complete destruction**, also taken into account by the NDP.



Net Domestic Product(NDP) = Gross Domestic Product(GDP) – Depreciation.

- **Significance**
 - To understand the historical **situation of the loss** due to depreciation to the economy.
 - To **understand and analyze the sectoral situation** of depreciation in industry and trade in comparative periods.
 - **Showcase the achievements of the economy** in the area of R&D, which have tried curing the levels of depreciation in a historical time period.

Gross National Product (GNP)

- **Total value of all goods and services** produced by citizens and enterprises in a country, regardless of **where they are produced**
- It is the **GDP of a country added with its income from abroad.**
- '**Income from Abroad**' includes:
 - **Trade Balance:** net outcome at year end of the total exports and imports of a country
 - **Interest on External Loans:** balance of **interest on the money lent by the country and the interest on the money it has borrowed** from other countries.



- **India** has always been a '**net borrower**' from the world economies.
- **Private Remittances:** account of the '**private transfers**' by **Indians working abroad** (to India) and **foreign nationals working in India** (to their home countries).

GNP(Y) = Consumption expenditure (c) + Investment (I) + Government expenditure (G) + Net exports (X) + Net income from Abroad(Z).

- **$Y = C + I + G + X + Z$**

- **Factors to GNP:** Manufacturing of items such as **equipment, machinery, agricultural products, and cars** & some services such as **consulting, education, and health care**.
- **The cost of delivering services is not calculated.**
- When a **citizen holds dual citizenship:** **GNP per capita** is utilized to calculate GNP on a **country-by-country basis**.
- In that situation, their **earnings are counted twice**, as each country's GNP.

Net National Product (NNP)

- **Value generated by removing depreciation** from the gross national product.
- **Determines how much a country can consume** in a specific time span.



$NNP = GNP - \text{Depreciation}$

or

$NNP = GDP + \text{Income from Abroad} - \text{Depreciation}$

- When a country's net national product (**NNP**) **dips or falls**,
 - Businesses **contemplate shifting to industries** that are **considered recession-proof**.

Personal Income	<ul style="list-style-type: none"> ● Amount of money earned collectively by the citizens of a country. ● Ex.: Money obtained from employment, dividends and distributions paid by investments, rents derived from property ownership, and profit sharing from enterprises. ● Taxation is imposed on personal income in most cases. <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>$PI = \text{National Income} - \text{Undistributed Profits} - \text{Net interest paid by households} - \text{Corporate tax} + \text{Transfer payments to the households from the government and firms}$</p> </div>
Personal Disposable Income	<ul style="list-style-type: none"> ● Income available to the households that they can spent as they wish ● Income available after payment of taxes and other non-tax payments <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>$PDI = PI - \text{Personal tax payments} - \text{non-tax payments}$</p> </div>

National Disposable Income	<ul style="list-style-type: none"> ● sum of the gross (or net) disposable incomes of the institutional sectors.
	<p>Gross (or net) NDI = gross (or net) national income (at market prices) - current transfers payable to non-resident units.</p>

Methods of computing National Income



Income Method	<ul style="list-style-type: none"> ● Estimated by adding all production factors (rent, salary, interest, profit) & mixed-income by self-employed. ● We add all net income payments received by all citizens of a country in a given year using this procedure. ● Net incomes from all factors of production are added. <ul style="list-style-type: none"> ○ Eg: net rents, wages, interest, and profits. ● Income received in the form of transfer payments is not included. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Net National Income = Compensation of Employees + Operating surplus mixed (W +R +P +I) + Net income + Net factor income from abroad.</p> <p>Where,</p> <ul style="list-style-type: none"> ■ W = Wages and salaries ■ R = Rental Income ■ P = Profit ■ I = Mixed Income </div>
Product/Value Added Method	<ul style="list-style-type: none"> ● aggregate value of final goods and services produced in a country throughout a financial year at market prices. ● To calculate GNP, <ul style="list-style-type: none"> ○ data from all productive activities are gathered and analysed, including: <ul style="list-style-type: none"> ■ agricultural goods, ■ minerals, and ■ industrial products ■ contributions to production made by transportation, insurance, communication, attorneys, doctors, and teachers, etc. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>National Income = GNP – Cost of Capital – Depreciation – Indirect Taxes</p> </div>
Expenditure Method	<ul style="list-style-type: none"> ● National Income is measured as the flow of expenditure. ● Total expenditure by the society summed up includes: <ul style="list-style-type: none"> ○ Personal consumption expenditure, ○ Net domestic investment, ○ Government expenditure on goods and services, and

○ **Net foreign investment.**
National Income = National Product = National Expenditure



Standing Committee On Economic Statistics

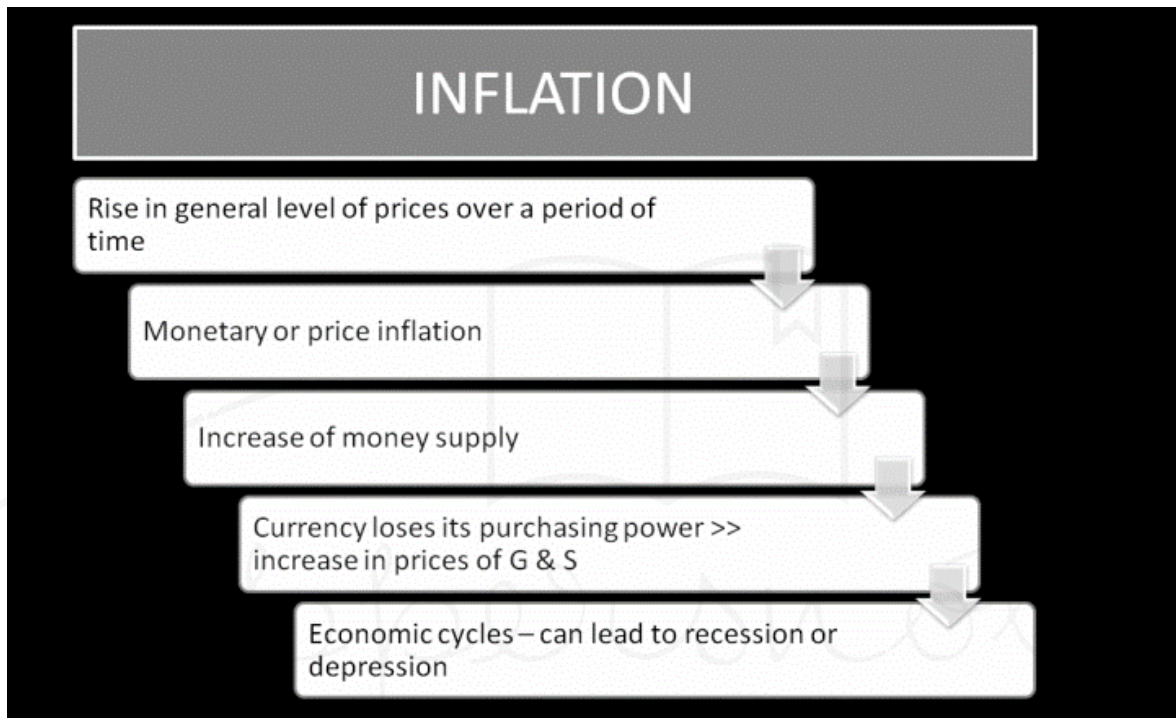
- **Constituted by:** Ministry of Statistics and Programme Implementation (MOSPI)
- **Chairman:** former **Chief Statistician**
- **Functions**
 - **Analyse and Develop:** country's surveys on employment, industry, and services.
 - **look at the current framework** of data sources, indicators, and definitions.
 - for **index of industrial production, periodic labour force surveys, time use surveys, economic censuses, and unorganised sector statistics.**
 - **4 standing committees** on: labour force statistics, industrial statistics, services sector, and unincorporated sector firms will be absorbed into the SCES.
 - **108 economists and social scientists** expressed worry over "**political involvement**" in influencing statistical data in India.
appealed for the statistical organisations' "institutional independence" and integrity to be restored.

2 CHAPTER

Inflation and Business Cycle



- **Inflation:** Increase in the general price level that is unregulated and accompanied by a decrease in the purchasing power of money.
- Price increases can be due to Increased **demand and decreased supply**.



Causes of Inflation

Demand Pull Factors	Cost Push Factors
<ul style="list-style-type: none"> ● Rise in population. ● Black money. ● Rise in income. ● Excessive government expenditure. 	<ul style="list-style-type: none"> ● Infrastructure bottlenecks cause production and distribution costs to rise. ● Rise in Minimum Support Price (MSP). ● Rise in international prices. ● Hoarding and black marketing. ● Rise in indirect taxes.

Other Factors

Excess printing of money	<ul style="list-style-type: none"> ● when the government prints an excess of money to deal with a crisis. ● Results in an increase in price level to an extent that matches the currency surplus. ● This type of inflation is called demand-pull inflation.
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Rise in production costs	<ul style="list-style-type: none"> ● Rise in production costs - common and most often reason for inflation ● Leads to an increase in the price of the final product. ● Ex. If the price of raw materials increases, the cost of production also increases, which leads to the company increasing prices to maintain their profits. ● Rising labour costs : lead to inflation because when companies accept the workers demand of increased wages.(companies usually chose to pass on those costs to their customers)
International lending and national debts	<ul style="list-style-type: none"> ● International lending and national debts can also lead to inflation. ● When nations borrow money with interests, which in the end cause a rise in prices to keep up with their debts.
Rise in tax and duties	<ul style="list-style-type: none"> ● Inflation can be caused by government taxes (on consumer products, especially non-elastic products fuel) due to the rise in taxes, suppliers often pass on the burden to the consumer.
Wars and conflicts	<ul style="list-style-type: none"> ● cause inflation as governments need to recoup the money spent and repay the funds borrowed from the central bank. ● affects international trading to labor costs to product demand

Types of Inflation

Based on Causation	Based on Speed	Others
<ul style="list-style-type: none"> ● Demand Pull Inflation ● Cost Push Inflation ● Monetary Inflation ● Built-In Inflation ● Headline/Core Inflation ● Profit Induced Inflation ● Structural Inflation 	<ul style="list-style-type: none"> ● Creeping Inflation ● Walking Inflation ● Running Inflation ● Galloping or Hyper-Inflation 	<ul style="list-style-type: none"> ● Skewflation ● Stagflation

Demand Pull Inflation	<ul style="list-style-type: none"> ● Aggregate demand rises primarily as a result of increased government spending (Expansionary Fiscal Policy) or increased spending by households and businesses. ● Aggregate demand > aggregate supply is the root source of demand pull inflation. ● The economy's enterprises are unable to produce the goods and services that households require at the present time. ● Inflation is fueled by shortages of goods and services owing to increased demand.
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Cost Push Inflation	<ul style="list-style-type: none"> ● Increases in cost of labour, raw materials, and other inputs ● The price of the factors of production rises, resulting in a decline in supply of these commodities. ● Cost-push inflation: While demand remains constant, commodity prices grow, resulting in an increase in the overall price level.
Structural Inflation (Bottleneck Inflation)	<ul style="list-style-type: none"> ● Inflation lasts longer due to structural flaws in the economy such as low agricultural production. ● inadequate distribution and storage systems result in Food shortages and inflation.
Creeping Inflation (1-4%)	<ul style="list-style-type: none"> ● Over time, a country's inflation rate rises gradually but steadily. ● When looking at the long term, the comparatively minor effect of creeping inflation adds up to a large increase in the cost of living.
Walking Inflation (2-10%)	<ul style="list-style-type: none"> ● Trolling inflation is another name for it. ● Occurs when the rate of price rises exceeds creeping inflation, which ranges from 2% to 10%.
Running Inflation (10-20%)	<ul style="list-style-type: none"> ● When there is a large increase in inflation with a typical rate of b/w 10% and 20% a year.
Monetary Inflation	<ul style="list-style-type: none"> ● Inflation caused by RBI issuing more money (deficit financing). ● A continuous growth in a country's money supply is referred to as monetary inflation (or currency area).
Galloping or Hyper-Inflation (20%- 1000%)	<ul style="list-style-type: none"> ● 'Extremely high inflation' measured in the double digits or triple digits (i.e., 20%, 100% or 200% in a year) ● Described as "large and accelerating" with annual rates in the millions or perhaps trillions of dollars. ● The range of rise is huge in such inflation.(growth also occurs in a relatively short period of time, with prices rising overnight)
Stagflation	<ul style="list-style-type: none"> ● A situation in which inflation is rising, economic growth is slowing, and unemployment is persistently high. ● Creates a conundrum for policymakers, because efforts aimed at lowering inflation may aggravate unemployment. ● Happens when there is both Stagnation (no economic growth) and Inflation at the same time. ● Economy slowing down, with high prices and unemployment. ● Unemployment is high, and demand is sluggish. ● Happens when an economy's production of goods and services slows or even stops growing.
Skewflation	<ul style="list-style-type: none"> ● Occurs when some commodities experience inflation while others experience deflation.

	<ul style="list-style-type: none"> ● Eg: a rise in the cost of living (inflation) combined with dropping asset prices, such as property, is an Example (deflation)
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Core Inflation Vs Headline Inflation

Core Inflation	Headline Inflation
<ul style="list-style-type: none"> ● The change in the cost of goods and services excluding the food and energy sectors. ● These items are not included in our estimate of inflation as their prices are significantly more unpredictable. ● The consumer price index (CPI): most commonly used to calculate it. ● measure of long-term inflationary trend. 	<ul style="list-style-type: none"> ● Food and energy prices (e.g., oil and gas), which are far more volatile and prone to inflationary surges - included in this estimate of total inflation. ● Sector-specific inflationary surges are unlikely to endure. ● Headline inflation may not accurately reflect an economy's inflationary trend. ● Figure of RAW Inflation.

Measures to check Inflation



<ul style="list-style-type: none"> ● Tools: The WPI (Wholesale Price Index) and CPI (Consumer Price Index) <ul style="list-style-type: none"> ○ used to assess wholesale and retail price fluctuations. ● CPI estimates the difference in price of commodities and services that Indian consumers buy for use. ● Eg: food, medical care, education, gadgets. ● WPI: captures the goods or services offered by enterprises to smaller businesses for resale. ● WPI and CPI : both used to calculate inflation in India.
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WPI Vs CPI



Wholesale Price Index (WPI)	<ul style="list-style-type: none"> ● Base Year: 2011-12 ● The average change in the price of commodities for bulk sale before they reach the retail level is measured. ● Inflation indicator that is most often used. ● Covers only goods. ● Manufactured products (64%) > Primary Articles (23%) > Fuel and Power (13%). ● Published by Office of Economic Adviser (OEA), Ministry of Commerce and Industry.
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Consumer Price Index (CPI)	<ul style="list-style-type: none"> ● Base Year: 2011-12 ● Calculates the change in the retail price of goods and services with reference to a base year. ● The CPI (Combined: Rural + Urban) is the RBI's key inflation indicator. ● Includes both goods and services <ul style="list-style-type: none"> ○ Food and Beverage 45.86 ○ Miscellaneous 28.32 ○ Housing 10.07. ○ Fuel and light 6.84. ○ Clothing and Footwear 6.53. ○ Pan, tobacco and intoxicants 2.38. ● CPI for Industrial Workers (IW): The Ministry of Labour and Employment has revised the base year for the CPI (IW) from 2001 to 2016. ● Agricultural Labourer (AL): The Ministry of Labour and Employment's CPI for Rural Laborer (RL). ● 1986-87: base year for the Consumer Price Index for Agricultural Workers (CPI-AL) and Rural Workers (CPI-RL). ● CPI (Rural/Urban/Combined) : National Statistics Office (NSO), Ministry of Statistics and Programme Implementation.
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Producer Price Index

- Determines the **change in average prices a producer obtains** by measuring the average change in prices of both goods and services.
 - Either as they leave the place of production (Output PPI) or as they enter the input production process (Input PPI).
- While the **WPI does not cover services, the PPI does** (giving it a more inclusive index)
- The **Multiple Counting Bias** in the Wholesale Price Index is **eliminated by the PPI**.
- The **weights of the items** in PPI are **calculated using Supply Use Tables**.
- **Price change** at the primary and intermediate stages **can be tracked before it is created** in the finished good stage, the PPI is **regarded as a superior measure of inflation**.
- **Several nations have moved to the PPI**.



Housing Price Index

- **On a quarterly basis:** tracks the **change in the price of residential buildings** across India's cities.
- **NHB Residex:** India's **first official housing price index** - created in Mumbai in July 2007 as a National Housing Bank. (Ministry of Finance)
- **developed with the help of a Technical Advisory Committee that included -**
 - **housing market stakeholders,**
 - **Government representatives** (Ministry of Housing and Urban Poverty Alleviation, Ministry of Finance, Ministry of Statistics and Programme Implementation),



- RBI
- National Housing Bank
- strives to increase openness and build confidence in India's real estate market.



Service Price Index (SPPI)

- Business-cycle indicator that measures gross change in trading price of services.
- Such as:
 - Freight and passenger transportation,
 - Postal services,
 - lodging and food services,
 - information and communication services,
 - computer programming,
 - consultancy services,
 - legal and accounting services,
 - architecture and engineering,
 - advertising,
 - office support,
 - security services, etc.
- **Public services are not included:** Those services (such as health and education) that are provided by the government.



Inflation Targeting

Meaning	<ul style="list-style-type: none"> ● A central banking policy focuses on managing monetary policy to attain a set yearly inflation rate. ● Inflation targeting is known to bring more stability, predictability, and transparency in deciding monetary policy.
Strict inflation targeting	<ul style="list-style-type: none"> ● When the central bank's sole priority is to keep inflation targets checked with close proximity.
Flexible inflation targeting	<ul style="list-style-type: none"> ● Used when the central bank is worried about a variety of other factors. ● Eg: Interest rate, exchange rate, output, employment stability etc.

Inflation Targeting Framework

- **Established:** After RBI Act, 1934 was amended in 2016,
- India now has a **flexible inflation targeting framework.**
- The **modified RBI Act mandates** that the **government of India, in collaboration with the Reserve Bank, determine the inflation target** once every five years.

GDP Deflator



$$\text{GDP deflator} = \frac{\text{Nominal GDP}}{\text{Real GDP}} \times 100$$

- **GDP Deflator:** a measure of general price inflation.
- **Ratio of nominal GDP to real GDP**
- **Encompasses all commodities and services produced**
- If the GDP deflator is **1: No change** in general price levels is expected.
- If the GDP deflator is **more than 1: it indicates that general price levels are rising.**
- It is **more comprehensive** than the CPI and the WPI, and it is **calculated using a number of primary price indices.**
- It is **used to derive volume estimates** by deflating various components of GDP evaluated at current prices. (either from the production or demand side estimations)

Base Effect



- The **impact of the previous year's rise in price levels (i.e. last year's inflation) on the current year's.**
- Comparable rise in price levels. (i.e. current inflation)
- **If the price index rose at a high pace in the previous year's corresponding period, resulting a high inflation rate,**
 - Some of the **potential rise has already been factored in.**
 - A **similar absolute increase** in the current year's price index - result in relatively lower inflation rates.
 - **Ex: if inflation in June 2016 was 8% and the absolute increase in the price index in June 2017 was 9%, inflation in June 2017 will be low, i.e. 1%.**
- **On the other hand -**
 - If the **inflation rate too low in the previous year's corresponding period,**
 - Even a **slight increase in the Price Index** will arithmetically **result in a high current inflation rate.**
 - **Ex: if inflation in June 2016 was 1% and absolute increase in the price index in June 2017 was 4%, then inflation in June 2017 at 3%.**

Effects of inflation



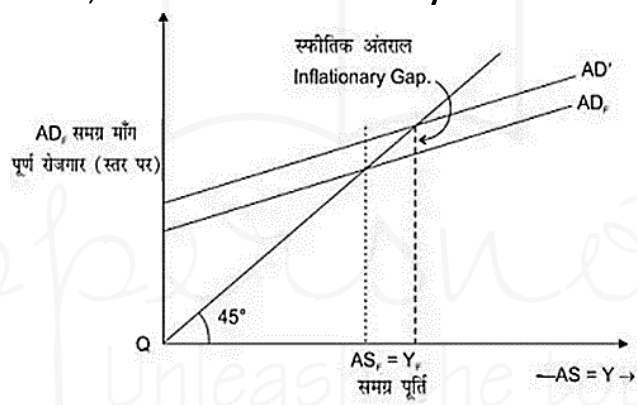
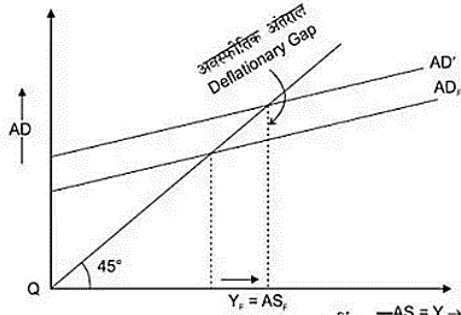
Merits	Demerits
<ul style="list-style-type: none"> ● Currency depreciates ● The weakening of the currency benefits exports the most. ● Lowers the interest rate. ● Debtors benefit. 	<ul style="list-style-type: none"> ● The purchasing power of the rupee decreases. ● Imports suffer as a result of currency depreciation, as they become more expensive. ● People with fixed incomes, such as pensioners and paid employees, suffer.

<ul style="list-style-type: none"> ● Business people gain profits. ● In the short run, savings, investment, and employment all rise. ● Nominal wage increases. 	<ul style="list-style-type: none"> ○ Due to economic uncertainty, there is less investment. ● Real wages decrease. ● Fall in real value of savings. ● Decline in competitiveness.
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Other important terms



Deflation	<ul style="list-style-type: none"> ● It is the general decrease in the price level over time.
Disinflation	<ul style="list-style-type: none"> ● It refers to a decrease in the rate of inflation or slower inflation. ● For instance, suppose the inflation rate drops from 8% to 6%.
Reflation	<ul style="list-style-type: none"> ● Reflation is the act of stimulating the economy by raising the money supply or lowering taxes. (Following a dip in the business cycle) ● To bring the economy back up to the long-term trend. ● It is contrary to deflation.
Phillips Curve	<ul style="list-style-type: none"> ● Inverse relationship b/w unemployment and inflation. <div style="text-align: center;"> <p style="text-align: center;">Phillips Curve</p> </div>
Producer Price Index	<ul style="list-style-type: none"> ● Monitors the average change in the price of goods and services as they <ul style="list-style-type: none"> ○ leave the manufacturing facility (output PPI) they enter the manufacturing process (input PPI). ● It calculates the change in average prices received by a producer.
Aggregate Demand (AD)	<ul style="list-style-type: none"> ● Total value of planned purchases of all final goods and services by all sectors of an economy at a given level and over a given time period. ● Measured as total expenditure. <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p style="margin: 0;">$AD = C + I + G + (X - M)$</p> <p style="margin: 0;">Where,</p> <p style="margin: 0;">C = Consumption Expenditure</p> </div>

	<p>I = Investment Expenses</p> <p>G = Government Expenditure</p> <p>(X-M) = Net Exports</p>
<p>Aggregate Supply</p>	<ul style="list-style-type: none"> ● Total value of the planned output of all final goods and services in an economy over a given period of time by all the productive units. ● Monetary value of aggregate supply = national income. <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> AS = National Income </div> <ul style="list-style-type: none"> ● When AD > AS at full employment level = Excess demand. ● When AD < AS at full employment level = Deficit demand.
<p>Inflationary Gap</p>	<ul style="list-style-type: none"> ● When aggregate demand exceeds aggregate supply at full employment, an inflationary gap occurs. ● In such a scenario, inflation will be fueled by excessive demand. <div style="text-align: center;">  </div>
<p>Deflationary Gap</p>	<ul style="list-style-type: none"> ● The amount by which actual aggregate demand falls short of aggregate supply at full employment. ● A measure of the magnitude of aggregate demand deficit. ● Results in a drop in output, income, and employment, as well as a long-term drop in prices. <div style="text-align: center;">  </div>
<p>Inflation Tax</p>	<ul style="list-style-type: none"> ● SEIGNIORAGE is another name for it. ● Inflation is always the amount at which the government can finance a deficit.

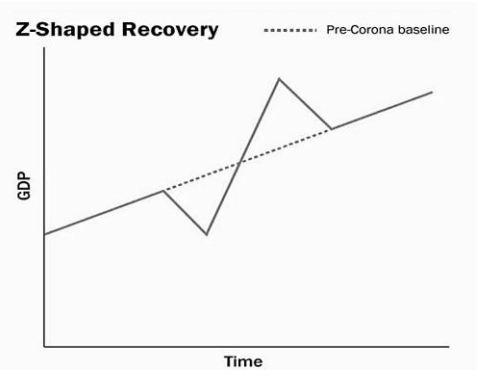
	<ul style="list-style-type: none"> ● Inflation has a direct relationship with the level of deficit finance. ● It refers to the financial loss of value experienced by cash and fixed-rate bond holders, as well as fixed-income investors.
Inflation Spiral	<ul style="list-style-type: none"> ● When wages push prices higher and prices push wages higher. ● Wage-price spiral is another name for it.
Inflation Accounting	<ul style="list-style-type: none"> ● Firm profits are eclipsed by inflation, therefore when they calculate after accounting for inflation, it is k/a IA. ● Premium for Inflation: <ul style="list-style-type: none"> ○ Inflation premium refers to the benefit that inflation provides to borrowers. ○ Banks lose money because the interest rate they charge is nominal.

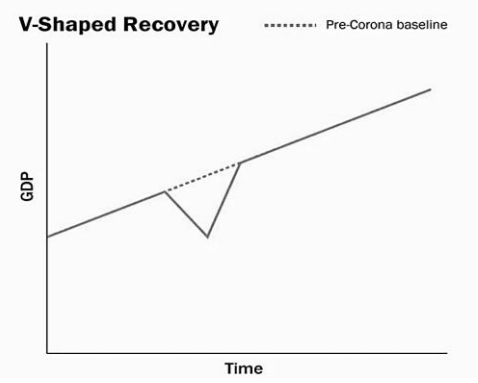
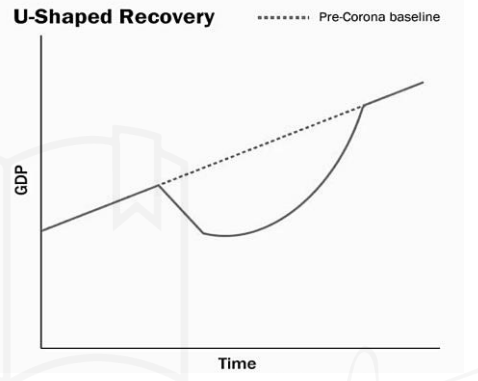
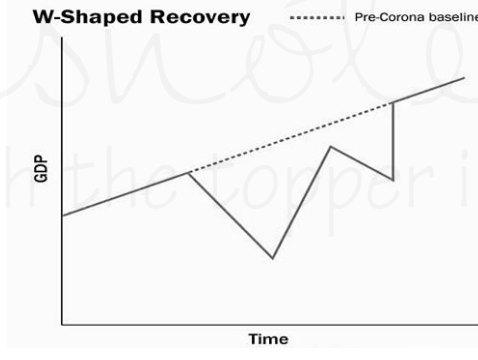
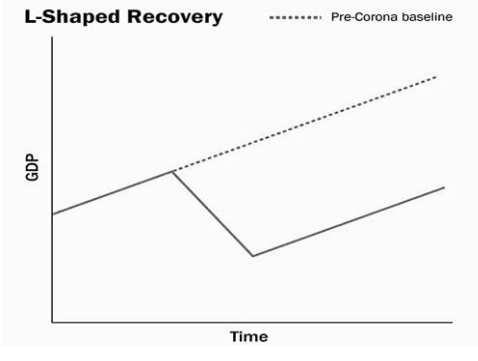
Economic Recovery



- **After a recession**, economic recovery entails, **reallocating resources and personnel from failed enterprises and investments to new jobs and uses.**
- After the recession: the **economy recovers and enters a new expansionary business cycle phase leading indicators frequently rise ahead of a rebound.**
- **such as:**
 - **Stock market,**
 - **Retail sales**
 - **New business start-ups etc.**
- Government measures can either aid or hinder the process of economic recovery.
- **Central banks may use monetary policies** to boost the money supply and encourage lending during an economic recovery.

Shape of Economic Recovery

Z-shaped recovery	<ul style="list-style-type: none"> ● Most optimistic scenario ● The economy recovers fast following a downturn. ● Before settling back to the regular trend-line, it makes up for lost territory, making a Z-shaped chart. ● This economic disturbance lasts for a short time, and it limits people's capacity to spend more than their salaries. 	 <p style="text-align: center;">Z-Shaped Recovery Pre-Corona baseline</p>
V-shaped recovery	<ul style="list-style-type: none"> ● Economy quickly regains lost ground and returns to its regular growth trend- 	

	<p>line.</p> <ul style="list-style-type: none"> ● Incomes and employment are not permanently lost as a result of this, and economic growth quickly recovers and returns to the path it was on before the disturbance. 	 <p>V-Shaped Recovery Pre-Corona baseline</p>
<p>U-shaped recovery</p>	<ul style="list-style-type: none"> ● A scenario in which the economy, after plunging, fights for a while at a low growth rate before eventually recovering to normal levels. ● Several employments are lost in this scenario, and people must rely on their savings. ● If the procedure is drawn out longer, the result is a "elongated U" form. 	 <p>U-Shaped Recovery Pre-Corona baseline</p>
<p>W-shaped recovery</p>	<ul style="list-style-type: none"> ● A recovery in the shape of a W is Volatile. ● Growth dips and rises, then falls and climbs again before recovering, generating a W-shaped graph. ● The second wave of the pandemic may be responsible for the double-dip shown by a W-shaped recovery. 	 <p>W-Shaped Recovery Pre-Corona baseline</p>
<p>L-shaped recovery</p>	<ul style="list-style-type: none"> ● indicates that the economy's ability to create is permanently harmed. ● the economy fails to regain its GDP level. 	 <p>L-Shaped Recovery Pre-Corona baseline</p>