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Economics Capsule For SSC & Railway Exams 2019

INTRODUCTION

Economics: The science which studies human behaviour as a relationship between ends and scarce means which have alternative uses".

Macroeconomics: It is the study of economic system as a whole. It studies broad aggregates like national income, employment and trade.

Micro Economics: It is a study of behaviour of individual units of an economy such as individual consumer, producer etc.

Economy: An economy is a system by which people get their living.

Production Possibility Curve (PPC): PP curve shows all the possible combination of two goods that can be produced with the help of available resources and technology.

Marginal Opportunity Cost: MOC of a particular good along PPC is the amount of other good which is sacrificed for production of additional unit of another good.

Marginal Rate of Transformation: MRT is the ratio of units of one good sacrificed to produce one more unit of other good.

DEMAND Concepts

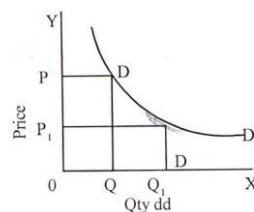
- ✚ **Demand:** Quantity of the commodity that a consumer is able and willing to purchase in a given period and at a given price.
- ✚ **Demand Schedule:** It is a tabular representation which shows the relationship between price of the commodity and quantity purchased.
- ✚ **Demand Curve:** It is a graphical representation of demand schedule.
- ✚ **Individual Demand:** Demand by an individual consumer.

Factors Affecting Individual Demand for a Commodity/ Determinants of Demand

1. Price of the commodity itself
2. Income of the consumer
3. Price of related goods
4. Taste and Preference
5. Expectations of future price change

Demand Function: $D_x = f(P_x, Y, P_r, T)$

Law of Demand: Other things remains constant, demand of a good falls with rise in price and vice versa.



Changes in Demand

They are of two types:

- 1) Change in Quantity Demanded (Movement along the same demand curve)
- 2) Change in Demand (Shifts in demand)

1) Change in Quantity Demanded: -

Demand changes due to change in price of the commodity alone, other factors remain constant; are of two types;

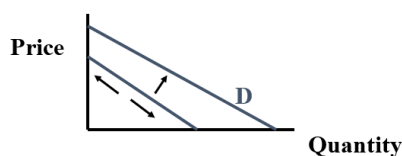
- A) Expansion of demand: More demand at a lower price
- B) Contraction of demand: Less demand at a higher price

Change in Quantity Demanded

Due to price change → Movement will takes place → Extension and contraction

Change in Demand

Due to other than price change → Shifting will takes place → Increase and decrease



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Change in demand

Demand changes due to change in factors other than price of the commodity, are of two types:

- A) **Increase in demand**:- more demand due to change in other factors, price remaining constant.
- B) **Decrease in demand**:- less demand due to change in other factors, price remaining constant.

Causes of Increase in Demand

1. Increase in Income.
2. Increase/ favorable change in taste and preference.
3. Rise in price of substitute good.
4. Fall in price of complementary good.

Note: Increase in income causes increase in demand for normal good

Causes of Decrease in Demand:

1. Decrease in Income.
2. Unfavorable/Decrease in taste and preference
3. Decrease in price of substitute good.
4. Rise in price of complementary good.

Note: Decrease in income causes Decrease in demand for normal good

Type of Goods

- ✚ **Substitute Goods**: Increase in the price of one good causes increase in demand for other good. E.g., tea and Coffee
- ✚ **Complementary Goods**: Increase in the price of one good causes decrease in demand for other good. E.g:- Petrol and Car
- ✚ **Normal Good**: Goods which are having positive relation with income. It means when income rises, demand for normal goods also rises.
- ✚ **Inferior Goods**: Goods which are having negative relation with income. It means less demand at higher income and vice versa.
- ✚ **Veblen good (aka ostentatious goods)**: Often confused with Giffen goods, Veblen goods are goods for which increased prices will increase quantity demanded. However, this is not because the consumers are forced into buying more of the good due to budgetary constraints (as in Giffen goods). Rather, Veblen goods are high-status goods such as expensive wines, automobiles, watches, or perfumes. The utility of such goods is associated with their ability to denote status. Decreasing their price decreases the quantity demanded because their status-denoting utility becomes compromised.

TYPES OF DEMAND

- ✚ **Cross demand**: Demand primarily dependent upon prices of related goods is called cross demand. The complementary goods and substitutes are called related goods. In case of

complementary goods like pen and ink demand for good is inversely related to the prices of other goods but the case in substituting goods are just opposite. Demand for substituting goods is directly related to prices.

- ✚ **Income demand**: Demand primarily dependent upon income is called income demand.
- ✚ **Direct demand**: Demand for goods and services made by final consumers to satisfy their wants or needs is called direct demand. For example guest of hotels make the demand for food.
- ✚ **Derived demand**: Demand for goods and services made according to direct demand is called derived demand.
- ✚ **Joint demand**: Demand made for two or more goods and services to satisfy single need or want is called joint demand.
- ✚ **Composite demand**: Demand for a single commodity made in order to use for different purposes is called composite demand.

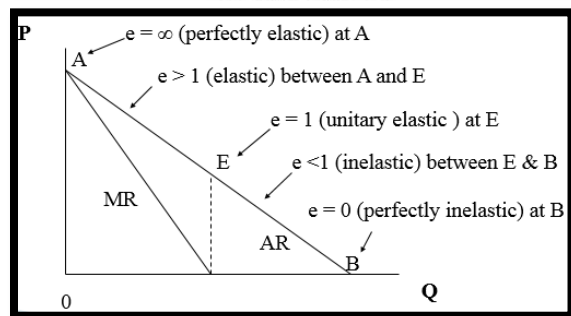
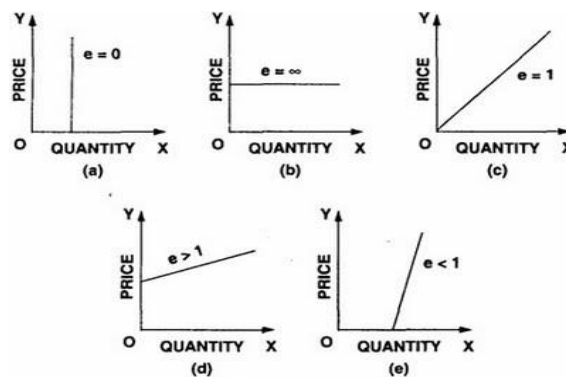
Price Elasticity of Demand (Ed)

It refers to the degree of responsiveness of quantity demanded to change in its price.

Ed. = Percentage change in quantity demanded / Percentage change in price

Ed. = $P/q \times \Delta q / \Delta p$

P = Original price Q = Original quantity Δ = Change



Perfectly inelastic demand (Ed = 0)

This describes a situation in which demand shows no response to a change in price. In other words,

whatever be the price the quantity demanded remains the same.

Inelastic (less elastic) demand ($e < 1$)

In this case the proportionate change in demand is smaller than in price.

Unitary elasticity demand ($e = 1$)

When the percentage change in price produces equivalent percentage change in demand, we have a case of unit elasticity. The rectangular hyperbola as shown in the figure demonstrates this type of elasticity.

Elastic (more elastic) demand ($e > 1$)

In case of certain commodities, the demand is relatively more responsive to the change in price. It means a small change in price induces a significant change in demand.

Perfectly elastic demand ($e = \infty$)

This is experienced when the demand is extremely sensitive to the changes in price. In this case an insignificant change in price produces tremendous change in demand. The demand curve showing perfectly elastic demand is a horizontal straight line.

Determinants of Price Elasticity

- Availability of substitutes
- Proportion of income spent
- Time period

Income Elasticity

- Percentage change in demand caused by one percent change in income, *ceteris paribus*.
- $E_i = (\% \Delta \text{ in demand}) / (\% \Delta \text{ in income})$
- $E_i = (\Delta Q / \Delta I) \cdot (I / Q)$
- Necessities ($0 < E_i \leq 1$): e.g., basic food items

Engel's Law: % of income spent on food decreases as income increases.

Cross-elasticity of demand

The responsiveness of demand to changes in prices of related goods is called cross-elasticity of demand (related goods may be substitutes or complementary goods). In other words, it is the responsiveness of demand for commodity x to the change in the price of commodity y.

e_c = Percentage change in the quantity demanded of commodity X / Percentage change in the price of commodity y

Measures of cross-elasticity of demand

Infinity - Commodity x is nearly a perfect substitute for commodity y

Zero - Commodities x and y are not related.

Negative - Commodities x and y are complementary.

LAW OF SUPPLY

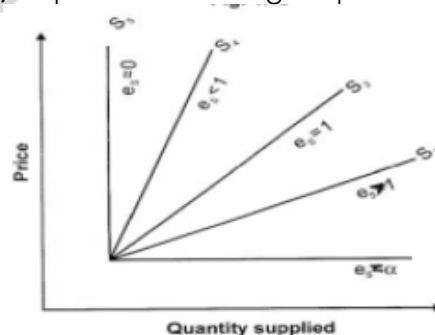
Supply means the goods offered for sale at a price during a specific period of time. It is the capacity and intention of the producers to produce goods and services for sale at a specific price. The supply of a commodity at a given price may be defined as the amount of it which is actually offered for sale per unit of time at that price.

The law of supply establishes a direct relationship between price and supply. Firms will supply less at lower prices and more at higher prices. "Other things remaining the same, as the price of commodity rises, its supply expands and as the price falls, its supply contracts".

Elasticity of Supply

The law of supply tells us that quantity supplied will respond to a change in price. The concept of elasticity of supply explains the rate of change in supply as a result of change in price. It is measured by the formula mentioned below

Elasticity of supply = Proportionate change in quantity supplied / Proportionate change in price



FORMS OF MARKET AND PRICE DETERMINATION

Market: Market is a place in which buyers and sellers come into contact for the purchase and sale of goods and services.

Market structure: refers to number of firms operating in an industry, nature of competition between them and the nature of product.

Types of market

a) Perfect competition. b) Monopoly c) Monopolistic Competition d) Oligopoly.

a) **Perfect competition:** refers to a market situation in which there are large number of buyers and sellers. Firms sell homogeneous products at a uniform price.

b) **Monopoly market:** Monopoly is a market situation dominated by a single seller who has full control over the price.

c) **Monopolistic competition:** It refers to a market situation in which there are many firms who sell closely related but differentiated products.

d) **Oligopoly:** is a market structure in which there are few large sellers of a commodity and large number of buyers.

Features of perfect competition:

1. Very large number of buyers and sellers.
2. Homogeneous product.
3. Free entry and exit of firms.
4. Perfect knowledge.
5. Firm is a price taker and industry is price maker.
6. Perfectly elastic demand curve ($AR=MR$)
7. Perfect mobility of factors of production.
8. Absence of transportation cost.
9. Absence of selling cost.

Features of monopoly:

1. Single seller of a commodity.
2. Absence of close substitute of the product.
3. Difficulty of entry of a new firm.
4. Negatively sloped demand curve ($AR>MR$)
5. Full control over price.
6. Price discrimination exists
7. Existence of abnormal profit.

Features of monopolistic competition

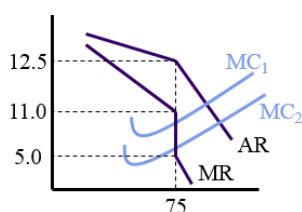
1. Large number of buyers and sellers but less than perfect competition.
2. Product differentiation.
3. Freedom of entry and exit.
4. Selling cost.
5. Lack of perfect knowledge.
6. High transportation cost.
7. Partial control over price.

Main features of Oligopoly.

1. Few dominant firms who are large in size
2. Mutual interdependence.
3. Barrier to entry.
4. Homogeneous or differentiated product.
5. Price rigidity.

The Kinked Demand Model

- Explains rigidity of prices in an oligopoly market.
- Does not explain how the price was determined originally



Features of pure competition

1. Large number of buyers and sellers.
2. Homogeneous products.
3. Free entry and exit of firm.

What are selling cost?

Ans.: Cost incurred by a firm for the promotion of sale is known as selling cost. (Advertisement cost)

What is product differentiation?

Ans: It means close substitutes offered by different producers to show their output differs from other output available in the market. Differentiation can be in colour, size packing, brand name etc to attract buyers.

What do you mean by patent rights?

Ans:- Patent rights is an exclusive right or license granted to a company to produce a particular output under a specific technology.

What is price discrimination?

Ans: - It refers to charging of different prices from different consumers for different units of the same product.

What is Advertising?

Advertising is one way of achieving product differentiation. The objective of advertising is to shift demand curve to right and make demand less elastic

PRODUCTION

Production: Combining inputs in order to get the output is production.

Production Function: It is the functional relationship between inputs and output in a given state of technology. $Q = f(L, K)$ Here: Q is the output, L: Labor, K: Capital

Fixed Factor: The factor whose quantity remains fixed with the level of output.

Variable Factor: Those inputs which change with the level of output.

PRODUCTION FUNCTION AND TIME PERIOD

1. Production function is a long period production function if all the inputs are varied.
2. Production function is a short period production function if few variable factors are combined with few fixed factors.

Concepts of product:

Total Product- Total quantity of goods produced by a firm / industry during a given period of time with given number of inputs.

Average product = output per unit of variable input.

$APP = TPP / \text{units of variable factor}$

Average product is also known as average physical product.

Marginal product (MP): refers to addition to the total product, when one more unit of variable factor is employed.

$MP_n = TP_n - TP_{n-1}$

MP_n = Marginal product of n th unit of variable factor

TP_n = Total product of n units of variable factor

TP_{n-1} = Total product of $(n-1)$ unit of variable factor.

n = no. of units of variable factor

$MP = \Delta TP / \Delta n$

We derive TP by summing up MP $TP = \Sigma MP$

Short Run Production Function Law Of Variable Proportion Or Returns To A Variable Factor

Statement of law of variable proportion: In short period, when only one variable factor is increased, keeping other factors constant, the total product (TP) initially increases at an increasing rate, then increases at a decreasing rate and finally TP decreases.

MPP initially increase then falls but remains positive then 3rd phase becomes negative.

Phase I / Stage I / Increasing returns to a factor.

- As long as MPP increases, TPP increases at an increasing rate.
- MPP also increases.

Phase II / Stage II / Diminishing returns to a factor

- TPP increases at decreasing rate
- MPP decreases / falls
- This phase ends when MPP is zero & TPP is maximum

Phase III / Stage III / Negative returns to a factor

- TPP diminishes / decreases
- MPP becomes negative.

Reasons for increasing returns to a factor

- Better utilization of fixed factor
- Increase in efficiency of variable factor.
- Optimum combination of factors

Reasons for diminishing returns to a factor

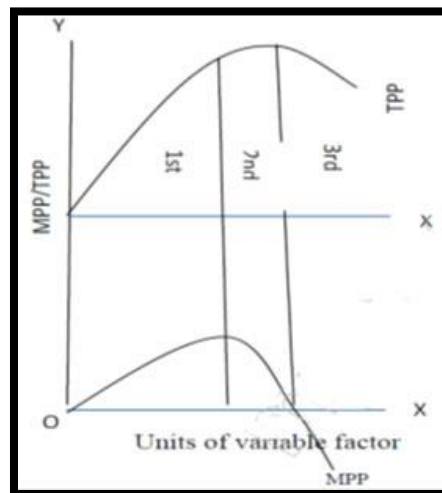
- Indivisibility of factors.
- Imperfect substitutes.

Reasons for negative returns to a factor

- Limitation of fixed factors
- Poor coordination between variable and fixed factor
- Decrease in efficiency of variable factors.

Relation between MPP and TPP

- As long as MPP increases, TPP increases at an increasing rate.
- When MPP decreases, TPP increases diminishing rate.
- When MPP is Zero, TPP is maximum.
- When MPP is negative, TPP starts decreasing.



Long-run production function - Returns to Scale

In the long run, all factors can be changed. Returns to scale studies the changes in output when all factors or inputs are changed. An increase in scale means that all inputs or factors are increased in the same proportion.

Three phases of returns to scale

The changes in output as a result of changes in the scale can be studied in 3 phases. They are

- Increasing returns to scale
- Constant returns to scale
- Decreasing returns to scale

Increasing returns to scale

If the increase in all factors leads to a more than proportionate increase in output, it is called increasing returns to scale. For example, if all the inputs are increased by 5%, the output increases by more than 5% i.e. by 10%. In this case the marginal product will be rising.

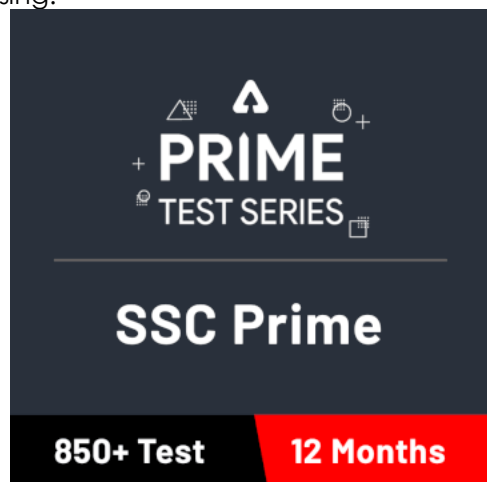
Constant returns to scale

If we increase all the factors (i.e. scale) in a given proportion, the output will increase in the same proportion i.e. a 5% increase in all the factors will result in an equal proportion of 5% increase in the output. Here the marginal product is constant.

Decreasing returns to scale

If the increase in all factors leads to a less than proportionate increase in output, it is called decreasing returns to scale i.e. if all the factors are increased by 5%, the output will increase by less than

5% i.e. by 3%. In this phase marginal product will be decreasing.



The Cobb – Douglas Production Function

The simplest and the most widely used production function in economics is the Cobb-Douglas production function. It is a statistical production function given by professors C.W. Cobb and P.H. Douglas.

The Cobb-Douglas production function can be stated as follows: $Q = bL^aC^{1-a}$

in which Q = Actual output L = Labour C = Capital b = number of units of Labour a = Exponent of labour $1-a$ = Exponent of Capital

According to the above production function, if both factors of production (labour and capital) are increased by one percent, the output (total product) will increase by the sum of the exponents of labour and capital i.e. by $(a+1-a)$. Since $a+1-a=1$, according to the equation, when the inputs are increased by one percent, the output also increases by one percent. Thus, the Cobb Douglas production function explains only constant returns to scale.

In the above production function, the sum of the exponents shows the degree of "returns to scale" in production function.

$a + b > 1$: Increasing returns to scale

$a + b = 1$: Constant returns to scale

$a + b < 1$: Decreasing returns to scale

COST

Cost of production: Expenditure incurred on various inputs to produce goods and services.

Cost function: Functional relationship between cost and output.

$C=f(q)$ Where f =functional relationship where c = cost of production q =quantity of product

Types of Cost

- Money cost:** Money expenses incurred by a firm for producing a commodity or service.
- Explicit cost:** Actual payment made on hired factors of production. For example wages paid to the hired labourers, rent paid for hired accommodation, cost of raw material etc.
- Implicit cost:** Cost incurred on the self - owned factors of production. For example, interest on owners capital, rent of own building, salary for the services of entrepreneur etc.
- Opportunity cost:** is the cost of next best alternative foregone / sacrificed.
- Fixed cost:** are the cost which are incurred on the fixed factors of production. These costs remain fixed whatever may be the scale of output. These costs are present even when the output is zero. These costs are present in short run but disappear in the long run.
- Total Variable Cost:** TVC or variable cost – are those costs which vary directly with the variation in the output. These costs are incurred on the variable factors of production. These costs are also called "prime costs", "Direct cost" or "avoidable cost". These costs are zero when output is zero.
- Total Cost:** is the total expenditure incurred on the factors and non-factor inputs in the production of goods and services. It is obtained by summing TFC and TVC at various levels of output.

Relation between TC, TFC and TVC

- TFC is horizontal to x axis.
- TC and TVC are S shaped (they rise initially at a decreasing rate, then at a constant rate & finally at an increasing rate) due to law of variable proportions.
- At zero level of output TC is equal to TFC.
- TC and TVC curves parallel to each other.

Average variable cost

- It is the cost per unit of the variable cost of production.
- $AVC = TVC / \text{output}$.
- AVC falls with every increase in output initially.
- Once the optimum level of output is reached AVC starts rising.

Average total cost (ATC) or Average cost (AC): refers to the per unit total cost of production.

Marginal cost: Refers to the addition made to total cost when an additional unit of output is produced.

$$MC_n = TC_n - TC_{n-1} \text{ or } MC = \Delta TC / \Delta Q$$

Note : MC is not affected by TFC.

Relationship between AC and MC

- Both AC & MC are derived from TC

- Both AC & MC are "U" shaped (Law of variable proportion)
- When AC is falling MC also falls & lies below AC curve.
- When AC is rising MC also rises & lies above AC
- MC cuts AC at its minimum where MC = AC

Revenue

Revenue: Money received by a firm from the sale of a given output in the market.

Total Revenue: Total sale receipts or receipts from the sale of given output.

TR = Quantity sold \times Price (or) output sold \times price

Average Revenue: Revenue or Receipt received per unit of output sold.

- AR = TR / Output sold
- AR and price are the same.
- TR = Quantity sold \times price or output sold \times price
- AR = (output / quantity \times price) / Output/ quantity
- AR = price
- AR and demand curve are the same. Shows the various quantities demanded at various prices.

Marginal Revenue: Additional revenue earned by the seller by selling an additional unit of output. $MR_n = TR_n - TR_{n-1}$ $\therefore TR = \sum MR$

Relationship between AR and MR (when price remains constant or perfect competition)

Under perfect competition, the sellers are price takers. Single price prevails in the market. Since all the goods are homogeneous and are sold at the same price AR = MR. As a result AR and MR curve will be horizontal straight line parallel to OX axis. (When price is constant or perfect competition)

Relation between TR and MR (When price remains constant or in perfect competition)

When there exists single price, the seller can sell any quantity at that price, the total revenue increases at a constant rate (MR is horizontal to X axis)

Relationships between AR and MR under monopoly and monopolistic competition (Price changes or under imperfect competition)

- AR and MR curves will be downward sloping in both the market forms.
- AR lies above MR.
- AR can never be negative.
- AR curve is less elastic in monopoly market form because of no substitutes.
- AR curve is more elastic in monopolistic market because of the presence of substitutes.

Relationship between TR and MR. (When price falls with the increase in sale of output)

- Under imperfect market AR will be downward sloping – which shows that more units can be sold only at a less price.
- MR falls with every fall in AR / price and lies below AR curve.
- TR increases as long as MR is positive.
- TR falls when MR is negative.
- TR will be maximum when MR is zero

Break-even point: It is that point where TR = TC or AR=AC. Firm will be earning normal profit.

Shut down point: A situation when a firm is able to cover only variable costs or TR = TVC

Formulae at a glance:

- TR = price or AR \times Output sold or $TR = \sum MR$
- AR (price) = TR \div units sold
- $MR_n = MR_n - MR_{n-1}$

MACRO ECONOMICS

Important concepts of National Income:

1. Gross Domestic Product at Market Price.
2. Gross National Product at Market Price.
3. Net Domestic Product at Market Price.
4. Net National Product at Market Price.
5. Net Domestic Product at Factor Cost.
6. Net National Product at Factor Cost.
7. Gross Domestic Product at Factor Cost.
8. Gross National Product at Factor Cost.
9. Private Income.
10. Personal Income
11. Disposable Income.

(1) Gross Domestic Product at Market Price (GDP at MP):-

Gross domestic product at market price is the aggregate money value of the final goods and services produced within the country's own territory. So as to calculate GDP at MP all goods and services produced in the domestic territory are multiplied by their respective prices. Symbolically GDP at MP = PXQ . Where P is market price and Q is final goods and services.

(2) Gross National Product of Market Price (GNP at MP):-

Gross national product at market price is broad and comprehensive concept. GNP at MP measures the money value of all the final products produced annually in a country plus net factor income from abroad. In short GNP is GDP plus net factor incomes earned from abroad. Net factor incomes is derived by reducing the factor incomes earned by foreigners from the country, in question from the factor incomes earned by the residents of that country from abroad.

(3) Net Domestic Product at Market Price (NDP at MP):-

Net domestic product- at market price is the difference between Net National Product at market price and net factor income from abroad. Net domestic product at market price is the difference between GNP at market price minus depreciation and net factor incomes from abroad.

(4) Net National Product at Market Price (NNP at MP):-

Net National product measures the net money value of final goods and services at current prices produced in a year in a country. It is the gross national product at market price less depreciation. In production of output capital assets are constantly used up. This fixed capital consumption is called depreciation. Depreciation constitutes loss of value of fixed capital. Thus net national product is the net money value of final goods and services produced in the course of a year. Net money value can be arrived at by excluding depreciation allowance from total output.

(5) Net Domestic Product at Factor Cost (NDP at FC):-

Net Domestic product of factor cost or domestic income is the income earned by all the factors of production within the domestic territory of a country during a year in the form of wages, interest, profit and rent etc. Thus NDP at FC is a territorial concept. In other words NDP at factor cost is equal to NNP at FC less net factor income from abroad.

(6) Net National Product at Factor Cost (NNP at FC)

Net national product at factor cost is the aggregate payments made to the factors of production. NNP at FC is the total incomes earned by all the factors of production in the form of wages, profits, rent, interest etc. plus net factor income from abroad. NNP at FC is the NDP at FC plus net factor income from abroad. NNP at FC can also be derived by excluding depreciation from GNP at FC.

(7) Gross Domestic Product at Factor Cost (GDP at FC):

Gross Domestic Product at factor cost refers to the value of all the final goods and services produced within the domestic territory of a country. If depreciation or consumption of fixed capital is added to the net domestic product at factor cost, it is called Gross domestic Product at Factor cost.

(8) Gross National Product at Factor Cost (GNP at FC):-

Gross national product at factor cost is obtained by deducting the indirect tax and adding subsidies to GNP at market price or Gross national Product at

factor cost is obtained by adding net factor incomes from abroad to the GDP at factor cost.

(9) Private Income:-

Private income means the income earned by private individuals from any source whether productive or unproductive. It can be arrived at from NNP at factor cost by making certain additions and deduction. The additions include (a) transfer earnings from Govt, (b) interest on national debt (c) current transfers from rest of the world. The deductions include (a) Income from property and entrepreneurship (b) savings of the non-departmental undertakings (e) social security contributions. In order to arrive at private income the above additions and subtraction are to be made to and from NNP at factor Cost.

(10) Personal Income:-

Personal Income is the total income received by the individuals of country from all sources before direct taxes. Personal income is not the same as National Income, because personal income includes the transfer payments where as they are not included in national income. Personal income includes the wages, salaries, interest and rent received by the individuals. Personal income is derived by excluding undistributed corporate profit taxes etc. from National Income.

(11) Disposable Income:-

Disposable income means the actual income which can be spent on consumption by individuals and families. It refers to the purchasing power of the house hold. The whole of disposable income is not spent on consumptions; a part of it is paid in the form of direct tax. Thus disposable income is that part of income, which is left after the exclusion of direct tax.

Concepts

- $NNP_{Mp} = GNP_{mp} - \text{depreciation}$
- $NDP_{Mp} = GDP_{mp} - \text{depreciation}$
- $NDP_{Fc} = NDP_{mp} - \text{Net indirect taxes (indirect tax - subsidies)}$
- $GDP_{Fc} = NDP_{fc} + \text{depreciation}$
- $NNP_{Fc} = GDP_{mp} - \text{depreciation} + \text{Net factor income from abroad} - \text{Net indirect taxes}$

Define nominal GNP

Ans. GNP measured in terms of current market prices is called nominal GNP.

Define Real GNP.

Ans. GNP computed at constant prices (base year price) is called real GNP.

Factor Payment: Factor payment is a payment made in lieu of providing goods and services. A worker gets

the wages is the factor payment because he worked for it.

Transfer payment: If there is no obligation involved to deliver service or goods in return of the payments is called transfer payment. Examples are: donation, old age pension, unemployment benefit, scholarship etc.

METHODS OF CALCULATING NATIONAL INCOME

I - PRODUCT METHOD (Value added method):

- Sales + change in stock = value of output
- Change in stock = closing stock – opening stock
- Value of output - Intermediate consumption = Gross value added (GDPmp)
- NNP_{fc} (N.I) = GDPmp (-) consumption of fixed capital (depreciation)
- (+) Net factor income from abroad (-) Net indirect tax.

Income method:

1. Compensation of employees.

2. Operating surplus.

Income from property- Rent & Royalty Interest
Income from Entrepreneurship- Profit, Corporate dividend, Tax Savings (Net retained earnings)

3. Mixed income of self-employed.

- NDP_{fc} = (1) + (2) + (3)
- NNP_{fc} = NDP_{fc} (+) Net factor income from abroad
- GNP_{mp} = NDP_{fc} + consumption of fixed capital + Net indirect tax (Indirect tax – subsidy)

Expenditure method:

- Government final consumption expenditure.
- Private final consumption expenditure.
- Net Export.
- Gross domestic capital formation = **Gross Domestic fixed Capital formation + Change in stock**

GDPmp = (1) + (2) + (3) + (4)

NNP_{fc} = GDPmp - consumption of fixed capital + NFIA- Net indirect taxes

Note: If capital formation is given as Net domestic capital formation we arrive at NDPmp. Capital formation = Investment

INTRODUCTION TO MACRO

Autonomous consumption: The consumption which does not depend upon income or the amount of consumption expenditure when income is zero.

Autonomous Investments: It is Investment which is made irrespective of level of income. It is generally run by the government sector. It is income inelastic. The volume of autonomous investment is same at all level of income.

Investment multipliers and its working.

Investment multiplier explains the relationship between increase in investment and the resultant increase in income.

Investment multiplier is the ratio of change in income to change in investment. Multiplier (k) = $\Delta y / \Delta I$.

The value of multiplier depends on the value of marginal propensity to consume (MPC).

There is direct relationship between k and MPC.



INFLATION TYPES

Comprehensive Inflation: When the prices of all commodities rise throughout the economy.

Sporadic Inflation: When prices of only few commodities in few regions (areas) rise. It is sectional in nature.

Open Inflation: When government does not attempt to restrict inflation, it is known as Open Inflation. In a free market economy, where prices are allowed to take its own course, open inflation occurs.

Suppressed Inflation: When government prevents price rise through price controls, rationing, etc., it is known as Suppressed Inflation. It is also referred as Repressed Inflation.

Hyperinflation: Hyperinflation refers to a situation where the prices rise at an alarming high rate. The prices rise so fast that it becomes very difficult to measure its magnitude. However, in quantitative terms, when prices rise above 1000% per annum (quadruple or four digit inflation rate), it is termed as Hyperinflation.

Deficit-Induced Inflation: Deficit inflation takes place due to deficit financing.

Credit Inflation: Credit inflation takes place due to excessive bank credit or money supply in the economy.

Scarcity Inflation: Scarcity inflation occurs due to hoarding. Hoarding is an excess accumulation of basic commodities by unscrupulous traders and black marketers.

Profit Inflation: When entrepreneurs are interested in boosting their profit margins, prices rise.

Demand-Pull Inflation: Inflation which arises due to various factors like rising income, exploding population, etc., leads to aggregate demand and exceeds aggregate supply, and tends to raise prices of goods and services. This is known as Demand-Pull or Excess Demand Inflation.

Cost-Push Inflation: When prices rise due to growing cost of production of goods and services, it is known as Cost-Push (Supply-side) Inflation. For e.g. If wages of workers are raised then the unit cost of production also increases. As a result, the prices of end-products and end-services being produced and supplied are consequently hiked.

Money supply

The Reserve Bank of India (RBI) is the central bank of our country. It manages the monetary system of our country. It has classified the money supply of our country into four components.

They are :

M1 = Currency with the public. It includes coins and currency notes + demand deposits of the public. M1 is also known as narrow money ;

M2 = M1 + post office savings deposits ;

M3 = M1 + Time deposits of the public with the banks.

M3 is also known as broad money ; and

M4 = M3 + total post office deposits.

Note: Besides savings deposits, people maintain fixed deposits of different maturity periods with the post office.

Fiat Money: Currency notes in circulation are normally referred to as fiat money. For example, one Rupee notes issued by the Government of India is Fiat money. The notes issued by the RBI are usually referred to as bank notes. They are in the nature of promissory notes.

TAX STRUCTURE IN INDIA

Taxes are the amount of money government imposes on an individual or corporates directly or indirectly so as to generate revenue or to keep in check any black money activities in India.

The tax on incomes, customs duties, central excise and service tax are levied by the Central Government. The state Government levies agricultural income tax (income from plantations only), Value Added Tax (VAT)/ Sales Tax, Stamp Duty, State Excise, Land Revenue, Luxury Tax and Tax On

Professions. The local bodies have the authority to levy tax on properties, octroi/entry tax and tax for utilities like water supply, drainage etc.

DIRECT TAXES-

These taxes are levied directly on the persons. These contribute major chunk of the total taxes collected in India.

INCOME TAX- This is a type of tax levied on the individuals whose income falls under the taxable category (more than 3 lakhs per annum).

The Indian Income Tax Department is governed by CBDT and is part of the Department of Revenue under the Ministry of Finance, Govt. of India.

Corporate Income Tax - This is the tax levied on the profits a corporate house earned in a year. In India, the Corporate Income tax rate is a tax collected from companies.

Securities Transaction Tax

Introduced in 2004, STT is levied on the sale and purchase of equities (ie Shares, Debentures or any other security). More clearly, The income a individual generate through the securities market be it through reselling of shares or through debentures is taxed by the government of India and the same tax is called as Securities Transaction Tax.

Banking Cash Transaction Tax

A bank transaction tax is a tax levied on debit (and/or credit) entries on bank accounts. It can be automatically collected by a central counterparty in the clearing or settlement process.

Capital Gains Tax:

Capital Gain tax as name suggests it is tax on gain in capital. If you sale property, shares, bonds & precious material etc. and earn profit on it then you are supposed to pay capital gain tax.

- **PROPERTY TAX**
- **GIFT TAX**
- **HOUSE TAX**
- **PROFESSIONAL TAX**
- **DTC**

INDIRECT TAXES

You go to a super market to buy goods or to a restaurant to have a mouthful there at the time of billing you often see yourself robbed by some more amount than what you enjoyed of, these extra amounts are indirect taxes, which are collected by the intermediaries and when govt tax the income of the intermediaries this extra amount goes in to

government's kitty, hence as the name suggests these are levied indirectly on common people.

Indirect Taxes:-

- SALES TAX
- VAT(VALUE ADDED TAX)
- CUSTOM DUTY
- OCTROI
- EXCISE DUTY
- ANTI DUMPING DUTY
- ENTERTAINMENT TAX
- TOLL TAX
- SERVICE TAX
- GST-GOODS & SERVICE TAX

Sales Tax:

Sales tax charged on the sales of movable goods.

Value Added Tax

When we pay an extra amount of price for the goods and services we consume or buy, that extra amount of money is called as VAT. This taxes is about to be replaced by Goods and Services Tax.

Customs Duty

Customs Duty is a type of indirect tax levied on goods imported into India as well as on goods exported from India. In India, the basic law for levy and collection of customs duty is Customs Act, 1962. It provides for levy and collection of duty on imports and exports.

Custom duty & Octroi (On Goods):

Custom Duty is a type of indirect tax charged on goods imported into India. One has to pay this duty, on goods that are imported from a foreign country into India

Octroi is tax applicable on goods entering from one state to another for consumption or sale. In simple terms one can call it as Entry Tax.

Excise Duty:-

An excise duty is a type of tax charged on goods produced within the country. Another name of this tax is CENVAT (Central Value Added Tax).

Service Tax-

Service Tax is a tax imposed by Government of India on services provided in India. The service provider collects the tax and pays the same to the government. It is charged on all services except the services in the negative list of services.

GOVERNMENT BUDGET AND THE ECONOMY

1. Define a Budget.

Ans: It is an annual statement of the estimated Receipts and Expenditures of the Government

over the fiscal year which runs from April -I to March 31.

2. Name the two broad divisions of the Budget.

Ans: i) Revenue Budget ii) Capital Budget

3. What are the two Budget Receipts?

Ans: i) Revenue Receipts ii) Capital Receipts

4. Name the two types of Revenue Receipts.

Ans: i) Tax Revenue ii) Non-tax Revenue

5. What are the two types of taxes?

Ans: a) Direct Taxes: i) Income Tax, ii) Interest Tax, iii) Wealth Tax

b) Indirect Taxes: i) Customs duties, ii) Excise duties, iii) Sales Tax

6. What are the main items of Capital Receipts?

Ans: a) Market Loans (loans raised by the government from the public)

b) Borrowings by the Government

c) Loans received from foreign governments and International financial Institutions.

7. Give two examples of Developmental Expenditure.

Ans: Plan expenditure of Railways and Posts

8. Give two examples of Non-Developmental expenditures.

Ans: i) Expenditure on defence

ii) Interest payments

9. Define Surplus Budget.

Ans: A Surplus Budget is one where the estimated revenues are greater than the Estimated expenditures.

10. What are the four different concepts of Budget Deficits?

Ans: a) Budget Deficit b) Revenue Deficit

c) Primary Deficit and d) Fiscal Deficit

What do you mean by Revenue Expenditure and Capital Expenditure?

i) Revenue Expenditure :- It is the expenditure incurred for the normal running of government departments and provision of various services like interest charges on debt, subsidies etc.,

ii) Capital Expenditure:- It consists mainly of expenditure on acquisition of assets like land, building, machinery, equipment etc., and loans and advances granted by the Central Government to States & Union Territories.

Explain the four different concepts of Budget deficit.

These are the four different concepts of Budget Deficit.

a) Budget Deficit:- It is the difference between the total expenditure, current revenue and net internal and external capital receipts of the government.

Formulae: $B.D = B.E - B.R$ (B.D= Budget Deficit, B.E. Budget Expenditure B.R= Budget Revenue)

b) Fiscal Deficit:- It is the difference between the total expenditure of the government, the revenue receipts PLUS those capital receipts which finally accrue to the government.

Formulae: $F.D = B.E - B.R$ (B.E > B.R. other than borrowings) F.D=Fiscal Deficit, B.E= Budget Expenditure, B.R. = Budget Receipts.

c) Revenue Deficit: - It is the excess of governments revenue expenditures over revenue receipts.

Formulae: $R.D = R.E - R.R.$, When $R.E > R.R.$, R.D= Revenue Deficit, R.E= Revenue Expenditure, R.R. = Revenue Receipts.

d) Primary Deficit: - It is the fiscal deficit MINUS Interest payments. **Formulae:** $P.D = F.D - I.P.$, [P.D= Primary Deficit, F.D= Fiscal Deficit, I.P= Interest Payment.]

BALANCE OF PAYMENTS: MEANING AND COMPONENTS

Meaning: The balance of payments of a country is a systematic record of all economic transactions between residents of a country and residents of foreign countries during a given period of time.

BALANCE OF TRADE AND BALANCE OF PAYMENTS

Balance of trade: Balance of trade is the difference between the money value of exports and imports of material goods (visible item)

Balance of payments: Balance of payments is a systematic record of all economic transactions between residents of a country and the residents of foreign countries during a given period of time. It includes both visible and invisible items. Hence the balance of payments represents a better picture of a country's economic transactions with the rest of the world than the balance of trade.

STRUCTURE OF BALANCE OF PAYMENT ACCOUNTING

A balance of payments statement is a summary of a Nation's total economic transaction undertaken on international account. There are two types of account.

1. **Current Account:** It records the following 03 items.

a) Visible items of trade: The balance of exports and imports of goods is called the balance of visible trade.

b) Invisible trade: The balance of exports and imports of services is called the balance of invisible trade E.g. Shipping insurance etc.

c) Unilateral transfers: Unilateral transfers are receipts which residents of a country receive (or) payments that the residents of a country make without getting anything in return e.g. gifts.

The net value of balances of visible trade and of invisible trade and of unilateral transfers is the balance on current account.

2. **CAPITAL ACCOUNT:** It records all international transactions that involve a resident of the domestic country changing his assets with a foreign resident or his liabilities to a foreign resident.

EXCHANGE

1. Define foreign exchange rate.

Ans: Foreign exchange rate is the rate at which currency of one country can be exchanged for currency of another country.

2. What do you mean by Foreign Exchange Market?

Ans: The foreign exchange market is the market where international currencies are traded for one another.

3. What is meant by Fixed Exchange Rate?

Ans: Fixed Rate of exchange is a rate that is fixed and determined by the government of a country and only the government can change it.

4. What is equilibrium rate of exchange?

Ans: Equilibrium exchange rate occurs when supply of and demand for foreign exchange are equal to each other.

5. Define flexible exchange rate.

Ans: Flexible rate of exchange is that rate which is determined by the demand and supply of different currencies in the foreign exchange market.

6. What is meant by appreciation of currencies?

Ans: Appreciation of a currency occurs when its exchange value in relation to currencies of other country increases.

7. Define Spot exchange rate.

Ans: The spot exchange rate refers to the rate at which foreign currencies are available on the spot.

8. Define forward market.

Ans: Market for foreign exchange for future delivery is known as the forward market.

Ans: Balance of payments refers to the statement of accounts recording all economic transactions of a given country with the rest of the world.

9. What is meant by balance of payments?

Indian Polity/Civics Capsule For SSC & Railway Exams 2019

Framing of the Constitution:

- The Constitution of India was framed by a Constituent Assembly which was set up under the Cabinet mission plan (1946).
- The Constituent Assembly took almost 3 years (2 years, 11 months, & 18 days) to complete its historic task of drafting the Constitution for an Independent India.
- During this period it held 11 sessions covering a total of 165 days. Of these, 114 days were spent on the consideration of & discussion on the Draft Constitution.
- As for the composition of the Assembly, members were chosen by indirect election by the members of the Provincial Legislative Assemblies, following the scheme recommended by the Cabinet Mission. The total membership of the assembly thus was to be 389.
- However, as a result of the partition, a separate Constituent Assembly was set up for Pakistan & representatives of some provinces ceased to be members of the Assembly. As a result, the membership of the Assembly was reduced to 299.

The Cabinet Mission

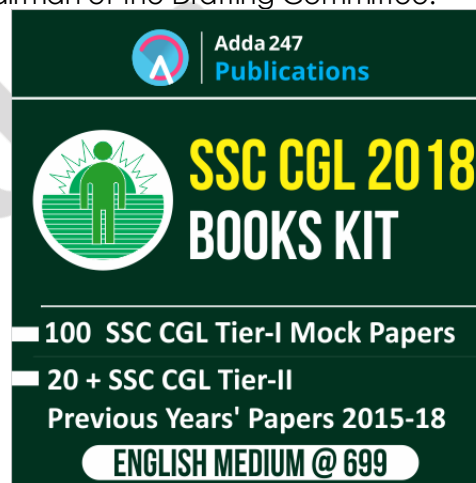
World War II in Europe came to an end on May 9, 1945. Three British cabinet ministers were sent to find a solution to the question of India's independence. This team of ministers (Lord Pethick Lawrence, Stafford Cripps, A V Alexander) was called the Cabinet Mission. The Mission was in India from March 1946 to May 1946. The Cabinet Mission discussed the framework of the constitution & laid down in some detail the procedure to be followed by the constitution drafting body. The Assembly began work on 9 December 1946.

First Interim National Govt.

The Govt. was constituted on 2 September, 1946. It was headed by Pandit Nehru. All the members of the interim Govt. were members of Viceroy's Executive Council. The Viceroy continued to be the head of the Council. Pandit Jawahar Lal Nehru was designated as the Vice-President of the Council.

The Constituent Assembly

- The people of India elected members of the provincial assemblies, who in turn elected the constituent assembly.
- Frank Anthony represented the Anglo-Indian community.
- Dr. Sachidanand Sinha was the first president of the Constituent Assembly. Later, Dr. Rajendra Prasad was elected president of the Constituent Assembly while B.R. Ambedkar was appointed the Chairman of the Drafting Committee.



Sources of our Constitution

The Indian Constitution is borrowed from almost all the major countries of the world but has its own unique features too. Major sources are:

- Government of India Act of 1935** - Federal Scheme, Office of Governor, Judiciary, Public Service Commission, Emergency provisions & administrative details.
- British Constitution** - Parliamentary System, Rule of law, Legislative Procedure, Single Citizenship, Cabinet System, Prerogative Writs, Parliamentary Privileges & Bicameralism.
- US Constitution** - Fundamental rights, independence of judiciary, judicial review, impeachment of president, removal of Supreme court & high court judges & post of vice president.
- Irish Constitution** - Directive Principles of State Policy, nomination of members of Rajya Sabha & method of election of president

5. **Canadian Constitution-** Federation with a strong centre, vesting of residuary power in the centre, appointment of state Governor by the centre & advisory jurisdiction of Supreme Court.
6. **Australian Constitution-** Concurrent list, joint sitting of two houses of Parliament, Freedom of trade & commerce & intercause.
7. **Constitution of Germany-** Suspension of fundamental rights during emergency.
8. **French Constitution-** Republic & ideals of liberty, equality & fraternity in the Preamble.
9. **South African Constitution-** Procedure for amendment of the constitution & election of members of Rajya Sabha.
10. **Japanese Constitution-** Procedure established by Law.
11. **Constitution of former USSR:** Procedure of five-year plan, fundamental duties, ideals of justice (social, economic & political) in Preamble.

Part XIVA	Tribunals	Art. 323A to 323B
Part XV	Elections	Art. 324 to 329A
Part XVI	Special provisions relating to certain classes	Art. 330 to 342
Part XVII	Official Language	Art. 343 to 351
Part XVIII	Emergency Provisions	Art. 352 to 360
Part XIX	Miscellaneous	Art. 361 to 367
Part XX	Amendment of the Constitution	Art. 368
Part XXI	Temporary, Transitional and Special Provisions	Art. 369 to 392
Part XXII	Short title, commencement, authoritative text in Hindi and repeals	Art. 393 to 395

PARTS DESCRIBED IN THE CONSTITUTION

Part	Subject	Articles
Part I	The Union and its territory	Art. 1 to 4
Part II	Citizenship	Art. 5 to 11
Part III	Fundamental Rights	Art. 12 to 35
Part IV	Directive Principles	Art. 36 to 51
Part IVA	Fundamental Duties	Art. 51A
Part V	The Union	Art. 52 to 151
Part VI	The States	Art. 152 to 237
Part VII	Repealed by Const. (7th Amendment) Act, 1956	
Part VIII	The Union Territories	Art. 239 to 242
Part IX	The Panchayats	Art. 243 to 243O
Part IXA	The Municipalities	Art. 243P to 243ZG
Part IXB	The Co-operative Societies	Art. 243ZH to 243ZT
Part X	The Scheduled and Tribal Areas	Art. 244 to 244A
Part XI	Relations between the Union and the States	Art. 245 to 263
Part XII	Finance, Property, Contracts and Suits	Art. 264 to 300A
Part XIII	Trade, Commerce and Intercourse within the Territory of India	Art. 301 to 307
Part XIV	Services under the Union and the States	Art. 308 to 323

IMPORTANT SCHEDULES IN THE CONSTITUTION

Schedules 1 to 12

First schedule contains the list of states and union territories and their territories

Second schedule contains provisions as to the President, Governors of States, Speaker and the Deputy Speaker of the House of the People and the Chairman and the Deputy Chairman of the Council of States and the Speaker and the Deputy Speaker of the Legislative Assembly and the Chairman and the Deputy Chairman of the Legislative Council of a State, the Judges of the Supreme Court and of the High Courts and the Comptroller and Auditor-General of India the list of states and union territories and their territories

Third Schedule contains the Forms of Oaths or Affirmations.

Fourth Schedule contains provisions as to the allocation of seats in the Council of States.

Fifth Schedule contains provisions as to the Administration and Control of Scheduled Areas and Scheduled Tribes.

Sixth Schedule contains provisions as to the Administration of Tribal Areas in the States of Assam, Meghalaya, Tripura and Mizoram.

Seventh Schedule contains the Union list, State list and the concurrent list.

Eighth Schedule contains the list of recognised languages.

Ninth Schedule contains provisions as to validation of certain Acts and Regulations.

Tenth Schedule contains provisions as to disqualification on ground of defection.

Eleventh Schedule (73rd amendment) contains the powers, authority and responsibilities of Panchayats.

Twelfth Schedule (74th amendment) contains the powers, authority and responsibilities of Municipalities.

Fundamental Rights

- They are **justiciable**, allowing persons to move the courts for their enforcement, if & when they are violated.
- They are defended & guaranteed by the Supreme Court. Hence, the aggrieved person can directly go to the Supreme Court. They can be suspended during the operation of a National Emergency except the rights guaranteed by **Articles 20 & 21**. More, the six rights guaranteed by Article 19 can be suspended only when emergency is declared on the grounds of war or external aggression.

Originally the Constitution provided for seven fundamental rights:

1. Right to equality [Art. 14-18]
2. Right to freedom [Art. 19-22]
3. Right against exploitation [Art. 23-24].
4. Right to freedom [Art. 25-28]
5. Cultural & educational rights [Art. 29-30]
6. Right to property [Art. 31]
7. Right to constitutional remedies [Art. 32]

However, the 'right to property' was deleted from the list of fundamental rights by the **44th Constitutional Amendment Act, 1978**. It has been made a legal right under **Article 300-A** in the Constitution. So, at present, there are only six fundamental rights.

Part-IV: Directive Principles of State Policy [Article 36 to 51]

- The phrase 'Directive Principles of State Policy' denotes the ideals that the State should keep in mind while formulating policies & enacting laws.
- It includes the legislative & executive organs of the central & state governments, all local authorities & all other public authorities in the country.
- The Directive Principles are **non-justiciable in nature**, that is, they are not legally enforceable by the courts for their violation. Therefore, the government cannot be compelled to implement them. They aim at providing social & economic justice of the people.

FUNDAMENTAL DUTIES

A list of ten fundamental duties was included in the Indian **Constitution by the 42nd Amendment Act, 1976 in the form of Article 51 A**.

- For this a new part was created in the Constitution in the form of Part IV-A. **It is based on the Japanese model.**
- The idea of including a separate chapter on duties was recommended by the **Swaran Singh Committee** in view of the fact that duties & rights are inseparable.
- Moreover, subsequently **11th duty has been added by Constitution (86th Amendment) Act, 2002 in the form of 51 A (k)**. It reads:

"It shall be the duty of every citizen of India "who is a parent or guardian to provide opportunities for education to his child or, as the case may be, ward between the age of six & fourteen years."

CITIZENSHIP

A citizen is a person who enjoys full membership of the community or State in which he lives or ordinarily lives. The State demands extra duty from its citizen which cannot be asked to non-citizens.

- The 42nd Constitution (Amendment) Act, 1976 has inserted 10 Fundamental Duties in Article 51-A.

Ways to acquire Indian Citizenship

Constitution of India under Citizenship (Amendment) Act, 1986 provides five ways to acquire citizenship of India. These five ways are:

- a) **Citizenship by Birth**
- b) **Citizenship by Descent**
- c) **Citizenship by Registration**
- d) **Citizenship by Naturalization**
- e) **Citizenship by incorporation of Territory**

The President

Article 52 – There shall be a President of India.

Article 53 – The executive power of the Union shall be vested in the President.

Thus the President is:

- (1) Executive head of the Republic.
- (2) All the executive actions are taken in his name. The executive power vested in the President is to be exercised on the aid & advice of the Council of Ministers [Article 74(1)]. It is obligatory on the part of President to accept the advice of the council of ministers as per the 42nd and 44th Constitutional Amendment Acts.
- (3) He is the first citizen of India & occupies the first position under the warrant of precedence. Warrant of Precedence indicates the hierarchy of positions occupied by various dignitaries attending a state function.
- (4) He is the Supreme Commander of Armed Forces.

Election of the President

The President of India is elected by indirect election. He is elected by an electoral college in accordance with the system of proportional representation by means of the single transferable vote & the vote being secret.

Article 54 –

The Electoral College consists of:

- The elected members of both houses of Parliament (nominated members are not the members of electoral college)
- The elected members of the Legislative Assemblies of the States (including National Capital Territory of Delhi & the Union Territory of Pondicherry)

Manner of Election of the President

The provisions dealing with the manner of election of the President of India are provided in Article 55. He is elected following the system of proportional representation by means of single transferable vote.

- Article 62** of the Constitution provides that an election to fill a vacancy shall be held as soon as possible after, & in no case later than six months from, the date of occurrence of the vacancy (if such occurrence of vacancy is caused by resignation or death or impeachment or otherwise).

Qualification for election as President

- He must be a citizen of India.
- He must have completed the age of 35 years.
- He must be qualified for election as a Member of the House of the People.
- He must not hold any office of Profit under the Govt. of India or the Govt. of any State or under any local or other authority subject to the control of any of the said Govt. However, following persons are not deemed to be holding any office of profit & hence they cannot be disqualified for election as the President: **A sitting President or Vice-President of India/Governor of any state/A minister of the Union or of any State.**

Eligibility for re-election

A person, who holds or who has held office as President shall be eligible for re-election to that office.

Impeachment of the President [Article 61]

- The President can be removed from his office before the expiry of his term by the process of impeachment.
- The President can be impeached only for the violation of the Constitution.
- It is a quasi-judicial procedure.

- The impeachment procedure can be initiated in either House of the Parliament. The resolution must be signed by at least 1/4th of the total membership of the House. Before the resolution could be passed, a 14-day notice must be given to the President. Such a Resolution must be passed by a majority of not less than 2/3rd of the total membership of the House.
- Then, the other House of Parliament called the "Investigating House" investigates the charges by itself or cause the charge to be investigated.
- The President has the right to appear & to be represented at such investigation to defend him.
- If, as a result of the investigation the other House also passes a resolution supported by not less than 2/3rd of the total membership of House, the President stands removed from his office from the date on which the investigating House passed the resolution.

Note:

- The elected members of the legislative assemblies of States have no role in the impeachment proceedings, while they elect the President.
- The nominated members of the Parliament have the right to deliberate & vote when the resolution of impeachment is under consideration while they have no vote in the election of the President.

Vacancy filled up with Acting President

- In case the office of the President falls vacant due to death, resignation or impeachment the Vice-President or in his absent. Chief Justice of Supreme Court or on his absence, senior most Judge of the Supreme Court becomes President till the fresh election for the Post & new incumbent assumes office.
- If the President is not able to discharge his duties due to sickness or absence due to any other reasons, the Vice-President discharges the functions of the President & is entitled to the same salary, allowances & privileges which are available to the President under the constitution.

Legislative powers of President

The legislative Powers of President are as follows:

- The President summons both the Houses of the Parliament & prorogues them. He or she can dissolve the Lok Sabha according to the advice of the Council of Ministers headed by the PM.
- President inaugurates the Parliament by addressing it after the general elections & also at the beginning of the first session each year.

3. All bills passed by the Parliament can become laws only after receiving the assent of the President. The President can return a bill to the Parliament, if it is not a money bill or a constitutional amendment bill, for reconsideration. When after reconsideration, the bill is passed & presented to the President, with or without amendments; President is obliged to assent to it.
4. The President can also withhold his assent to the bill thereby exercising pocket veto.
5. When both Houses of the Parliament are not in session & if Govt. feels the need for immediate action, President can promulgate ordinances which have the same force & effect as laws passed by Parliament.

Executive powers of President

The executive powers of President are as follows:

1. The President appoints the PM, the President then appoints the other members of the Council of Ministers, distributing portfolios to them on the advice of the PM.

The President is responsible for making a wide variety of appointments. These include:

Governors of States/The Chief Justice, other judges of the Supreme Court & High Courts of India/The Attorney General/The Comptroller & Auditor General/The Chief Election Commissioner & other Election Commissioners/ The Chairman & other Members of the Union Public Service Commission/ Ambassadors & High Commissioners to other countries.

3. The President is the Commander in Chief of the Indian Armed Forces.

Financial powers

1. All money bills originate in Parliament, but only if the President recommends it.
2. He or she causes the Annual Budget & supplementary Budget before Parliament.
3. The President appoints a finance commission every five years.

Judicial powers

1. The president appoints the Chief Justice of the Union Judiciary & other judges on the advice of the Chief Justice.
2. The President dismisses the judges if & only if the two Houses of the Parliament pass resolutions to that effect by two-thirds majority of the members present.
3. He/she has the right to grant pardon. The President can suspend, remit or commute the death sentence of any person.

Pardon - completely absolves the offender

Reprieve - temporary suspension of the sentence

Commutation - substitution of one form a punishment for another form which is of a lighter character

Respite - awarding a lesser sentence on special ground

Remission - reducing the amount of sentence without changing its character

Diplomatic powers

All international treaties & agreements are negotiated & concluded on behalf of the President. However, in practice, such negotiations are usually carried out by the PM along with his Cabinet (especially the Foreign Minister).

Military powers

The President is the supreme commander of the defense forces of India. The President can declare war or conclude peace, subject to the approval of parliament. All important treaties & contracts are made in president's name.

Emergency powers

The President can declare three types of emergencies: national, state & financial. **Under Article 352, 356 & 360.**

Vice President of India

The Vice-President is elected by an electoral college consisting of members of both Houses of Parliament, in accordance with the system of proportional representation by means of the single transferable vote & the voting in such election is by secret ballot. The Electoral College to elect a person to the office of the Vice-President consists of all members of both Houses of Parliament. He is ex-officio chairman of Rajya Sabha.

The Vice-President should not be a member of either House of Parliament or of a House of a Legislature of any state. If a member of either House of Parliament or of a House of a Legislature of any state is elected as Vice-President, he is deemed to have vacated his seat in that House on the date he/she enters his office as Vice-President.

A person cannot be elected as Vice-President unless she/he-

- ✚ is a citizen of India has completed the age of 35 years
- ✚ is qualified for election as a member of the Council of States (Rajya Sabha).
- ✚ Holds any office of profit under the Govt. of India or a State Govt. or any subordinate local authority.

Removal of Vice President

The Constitution states that the Vice President can be removed by a resolution of the Rajya Sabha passed by an absolute majority (more than 50% of total membership) & agreed to by a simple majority (50% of voting members) of the Lok Sabha (Article 67(a)).

Powers & functions of a VP

The functions of Vice-President are twofold:

1. He acts as the ex-officio Chairman of Rajya Sabha. In this capacity, his powers & functions are similar to those of the Speaker of Lok Sabha.
2. He acts as President when a vacancy occurs in the office of the President due to his resignation, removal, death or otherwise. He can act as President only for a maximum period of six months, within which a new President has to be elected. Further, when the sitting President is unable to discharge his functions due to absence, illness or any other cause, the Vice-President discharges his functions until the President resumes his office.

While acting as President or discharging the functions of President, the Vice-President does not perform the duties of the office of the chairman of Rajya Sabha. During this period, those duties are performed by the Deputy Chairman of Rajya Sabha.

- If the offices of both the President & the Vice-President fall vacant by reason of death, resignation, removal etc the Chief Justice of India or in his absence the seniormost judge of the Supreme Court acts as President.
- For the first time, during the 15-day visit of Dr. Rajendra Prasad to the Soviet Union in June 1960, the then Vice- President Dr. Radhakrishnan acted as the President.
- For the first time, in 1969, when the President Dr. Zakir Hussain died & the Vice-President V.V. Giri resigned, the Chief Justice Md. Hidayatullah acted as President.

Prime Minister

In the scheme of parliamentary system of government provided by the Constitution, the President is the nominal executive (de Jure) authority & PM is the real executive (de facto) authority. The President is the head of the State while PM is the head of the government.

Appointment of the PM

- Article 75 says that the PM shall be appointed by the President. The President appoints the leader of the majority party in the Lok Sabha as the PM.
- But, when no party has a clear majority in the Lok Sabha, then the President may exercise his personal discretion in the selection & appointment of the PM.

Term

The term of the PM is not fixed & he holds office during the pleasure of the President. So long as the PM enjoys the majority support in the Lok Sabha, he cannot be dismissed by the President. However, if he loses the confidence of the Lok Sabha, he must resign or the President can dismiss him.

Powers & functions of PM

- He recommends persons who can be appointed as ministers by the President.
- He can recommend dissolution of the Lok Sabha to the President at any time.
- He is the chairman of the NITI Aayog, National Development Council, National Integration Council, Inter-State Council & National Water Resources Council.

The Union Council of Ministers

As the Constitution of India provides for a parliamentary system of government modelled on the British pattern, the council of ministers headed by the PM is the real executive authority.

- Article 74 deals with the status of the council of ministers while Article 75 deals with the appointment, tenure, responsibility, qualification, oath & salaries & allowances of the ministers.
- The total number of ministers, including the PM, in the Council of Ministers shall not exceed 15% of the total strength of the Lok Sabha. [91st Constitutional Amendment Act, 2003]
- The council of ministers shall be collectively responsible to the Lok Sabha.
- A person who is not a member of either House can also become a minister but he cannot continue as minister for more than six months unless he secures a seat in either House of Parliament (by election/ nomination). [Art. 75(5)]

The council of ministers consists of three categories: Cabinet ministers, ministers of state, & deputy ministers.

Cabinet Ministers: The cabinet ministers head the important ministries of the Central government like home, defence, finance & external affairs.

Ministers of State: The ministers of state can either be given independent charge of ministries/departments or can be attached to cabinet ministers.

Deputy Ministers: The deputy ministers are not given independent charge of ministries/departments & always assist the Cabinet or State Minister or both. They are not members of the cabinet & do not attend cabinet meetings.

Minister may be taken from members of either House & minister who is member of one House has the right to speak & take part in the proceedings of the other

House but cannot vote in the House of which he is not member. [Art. 88]

PARLIAMENT OF INDIA

The House of the People (Lok Sabha)

- The Lok Sabha is the popular house of the parliament because its members are directly elected by the common electorates of India.
- All the members of this House are popularly elected, except not more than two from the Anglo-Indian community, who can be nominated by the President.
- In the Constitution, the strength of the Lok Sabha is provisioned under Art. 81 to be not more than 552 (530 from the States, 20 from the Union Territories & 2 may be nominated from the Anglo-Indian community).
- The Govt. has extended this freeze in the Lok Sabha seats till the year 2026 by Constitution (84th Amendment Act, 2001).

Special Powers of the Lok Sabha

1. Money & Financial Bills can only originate in the Lok Sabha.
2. In case of a Money Bill, the Rajya Sabha has only the right to make recommendation & the Lok Sabha may or may not accept the recommendation. Lok Sabha enjoys exclusive legislative jurisdiction over the passage of the Money Bills.
3. The Council of Ministers are responsible only to the Lok Sabha & hence the Confidence & No-confidence motions can be introduced in this House only.
4. Under Art. 352, the Lok Sabha in a special sitting can disapprove the continuance of a national emergency proclaimed by the President, even if the Rajya Sabha rejects such a resolution.

Tenure of the Lok Sabha

The normal tenure of the Lok Sabha is five years. But the House can be dissolved by the President even before the end of the normal tenure. Also, the life of the Lok Sabha can be extended by the Parliament beyond the five-year term during the period of national emergency proclaimed under Art. 352.

Qualifications for the membership of Lok Sabha

1. Be a citizen of India.
2. Be not less than 25 years of age.
3. Should be a registered voter in any of the Parliamentary constituencies in India.
4. Should not hold any office of profit
5. Should not be insolvent
6. Should not be mentally unsound.

Speaker & Deputy Speaker of Lok Sabha

- 1) Chief presiding officer of the Lok Sabha.
- 2) The Speaker presides over the meetings of the House & his rulings on the proceedings of the House are final.
- 3) The Speaker & Deputy Speaker may be removed from their offices by a resolution passed by the House by an effective majority of the House after a prior notice of 14 days to them.
- 4) The Speaker, to maintain impartiality of his office, votes only in case of a tie i.e to remove a deadlock & this is known as the Casting Vote.

Special powers of the Speaker

1. Whether a Bill is Money Bill or not is certified only by the Speaker & his decision in this regard is final & binding.
2. The Speaker, or in his absence, the Deputy Speaker, presides over the joint-sittings of the parliament.
3. The committees of parliament function essentially under the Speaker & their chairpersons are also appointed or nominated by him. Members of the Rajya Sabha are also present in some of these committees.
4. If the Speaker is a member of any committee, he is the ex-officio chairman of such a committee.

Special position of the Speaker

1. Though he is an elected member of the Lok Sabha, he continues to hold his office even after the dissolution of the House till a new Lok Sabha is constituted. This is because he not only presides & conducts the parliamentary proceedings but also acts as the Head of the Lok Sabha Secretariat which continues to function even after the House is dissolved.
2. The Speaker presides over the joint sitting of the two Houses of the Parliament
3. Speaker certifies a Bill as Money Bill & his decision is final in this regard.
4. The Speaker is ex-officio President of Indian Parliamentary Group which in India functions as the national group of Inter parliament Union.

Pro tem Speaker

As provided by the Constitution, the Speaker of the last Lok Sabha vacates his office immediately before the first meeting of the newly elected Lok Sabha. Therefore, the President appoints a member of the Lok Sabha as the *Pro tem* Speaker. The President himself administers oath to the *Pro tem* Speaker. The *Pro tem* Speaker has all the powers of the Speaker. He presides over the first sitting of the newly elected Lok Sabha. His main duty is to administer oath to the new members.

RAJYA SABHA

The Rajya Sabha (RS) or Council of States is the upper house of the Parliament of India. Membership is limited to 250 members, 12 of whom are nominated by the President of India for their contributions to art, literature, science, & social services.

- The remainder of the body is elected by the state & territorial legislatures. Members sit for six-year terms, with one third of the members retiring every two years.
- The Rajya Sabha meets in continuous sessions and, unlike the Lok Sabha, the lower house of Parliament, is not subject to dissolution.
- The Vice President of India (currently, Vankia Naidu) is the ex-officio Chairman of the Rajya Sabha, who presides over its sessions.
- The Deputy Chairman who is elected from amongst the RS's members, takes care of the day-to-day matters of the house in the absence of the Chairman.
- The Rajya Sabha held its first sitting on 13 May 1952.

Leader of the House

Besides the Chairman (Vice-President of India) & the Deputy Chairman, there is also a function called Leader of the House. This is a cabinet minister - the PM if he is a member of the House, or another nominated minister. The Leader has a seat next to the Chairman, in the front row.

Qualifications for the membership of Rajya Sabha

- be a citizen of India,
- be 30 years of age or more,
- not be holding any office of profit under the central or state Govt. or local body &
- possess all other qualification prescribed by the act of parliament from time to time.

Powers of Rajya Sabha

It enjoys co-equal power with the Lok Sabha in respect of all bills other than money bill. In case of Money Bills, Rajya Sabha has no powers.

Exclusive Functions of Rajya Sabha

The Rajya Sabha, under Article 249, may by a special majority of two-thirds votes adopt a resolution asking the Parliament to make laws on subjects of the State list, in the national interest.

This resolution gets due attention from the Parliament. The resolution remains valid for one year only which however can be extended further in terms of another one year.

Secondly, Rajya Sabha can take steps to create All India Services by adopting resolutions supported by special majority in the national interest.

Thirdly, Rajya Sabha has the exclusive right to initiate a resolution for the removal of the Vice-President. This becomes the exclusive right of the Rajya Sabha because the Vice-President happens to be its Chairman & draws his salary as such.



DIFFERENT TERMS RELATED TO PARLIAMENT

a) Summoning

The President from time to time summons each House of Parliament to meet. But, the maximum gap between two sessions of Parliament cannot be more than six months. In other words, the Parliament should meet at least twice a year. There are usually three sessions in a year:

- the Budget Session (February to May);
 - the Monsoon Session (July to September); and
 - the Winter Session (November to December).
- The period between the prorogation of a House & its reassembly in a new session is called 'recess'.

b) Joint Sitting

Under Article 108, there is a Provision of Joint sitting of both the Houses of the Parliament.

The Lok Sabha speaker presides over the joint sitting [Art. 118(4)].

There are only three occasions in the history of Indian Parliament that the joint sessions of the Parliament took place. They are as follows:

- In May 1961, for Dowry Prohibition Bill, 1959.
- In May 1978 for Banking Services Commission.
- In 2002 for POTA (Prevention of Terrorism Act).

Joint sitting of both Houses can be convened on two occasions:

- For resolving any deadlock over the passage of a Bill.
- Special address by the President at the commencement of the first session after each general election of the Lok Sabha; First Session of each year (the Budget Session).

Note: Joint sitting cannot be called for resolving deadlock regarding "Money Bill" & "Constitution Amendment Bill".

c) Prorogation

The presiding officer (Speaker or Chairman) declares the House adjourned *sine die*, when the business of a session is completed. Within the next few days, the President issues a notification for prorogation of the session. However, the President can also prorogue the House while in session.

d) Adjournment

This is a short recess within a session of the Parliament, called by the presiding officer of the House. Its duration may be from a few minutes to days together.

e) Adjournment *sine die*

When the House is adjourned without naming a day for reassembly, it is called adjournment *sine die*.

Grounds for disqualification of members of Parliament

There are five grounds for disqualification of Member of Parliament.

- ✚ **Article 102(1) (a):** A Member of Parliament shall be disqualified from being a member of House, if he holds any office of profit under state other than an office declared by Parliament by law not to disqualify its holder.
- ✚ **Article 102(1) (b):** If the Member of Parliament is of unsound mind & stands so declared by the court of law
- ✚ **Article 102(1) (c):** If he is a discharged insolvent declared by court of law.
- ✚ **Article 102(1) (d):** If he is not a citizen of India or has acquired the citizenship of a foreign state or is under any acknowledgement of allegiance to a foreign state.
- ✚ **Article 102(2):** If a person is disqualified being a Member of Parliament under anti-Defection Law (Tenth Schedule).

Legislative procedures in Parliament

The legislative procedure is identical in both the Houses of Parliament.

- Every bill has to pass through the same stages in each House. **A bill is a proposal for legislation & it becomes an act or law when duly enacted.**
- Bills introduced in the Parliament are of two kinds: **public bills & private bills** (also known as government bills & private members' bills respectively).
- Though both are governed by the same general procedure & pass through the same stages in the House, they differ in various respects.

BILLS IN PARLIAMENT

The four kinds of bills mentioned in the Constitution are:

- ✚ Ordinary Bill
- ✚ Money Bill
- ✚ Financial Bill
- ✚ Constitutional Amendment Bill

Ordinary Bill

Any bill other than Money, Financial or Constitution Amendment bill is called an Ordinary bill.

- It can be introduced in either Houses of the Parliament.
- It does not need the recommendation of the President for its introduction in Parliament (except a bill under article 3).
- It is passed by a simple majority by both the Houses.
- They enjoy equal legislative powers over the passage of an ordinary bill.
- If there is a deadlock over the bill it can be resolved in a joint sitting of both the Houses of Parliament.

Money Bill

A bill that deals exclusively with money matters that are mentioned in Article 110 in Constitution is called a Money Bill. These Money matters are:

- (1) Imposition, abolition or alternation of any tax.
- (2) The borrowing of any money or giving any guarantee by the Govt. of India.
- (3) The custody of the Consolidated Fund of India or Contingency fund of India or deposition or withdrawal of any money from any such funds.
- (4) The appropriation of the money out of the Consolidated Fund of India.
- (5) Declaring any expenditure as charged on the Consolidated Fund of India.
- (6) The receipt of money on the account of consolidated Fund of India or Public Account of India.
- (7) Any matter that is incidental to the above matters.

A money bill can be introduced only in Lok Sabha on the recommendation of the President. It is passed by a simple majority by both the Houses of Parliament. The Lok Sabha enjoys overriding legislative power in the passage of a money bill & Rajya Sabha cannot reject or approve a money bill by virtue of its own legislative power. Any money bill shall bear the certificate of speaker that it is a money bill. The Speaker's decision in this regard is final & binding & cannot be questioned in any court of law.

A money bill is transmitted to Rajya Sabha after it has been passed by Lok Sabha. The Rajya Sabha can exercise any of the following four options:

- (i) It also passes the bill.
- (ii) It rejects the bill outright – upon being rejected the bill is deemed to have been passed by both the Houses.
- (iii) The Rajya Sabha does not pass the bill for 14 days, then on the expiry of 14th day after having received the bill it is deemed to have been passed by both the Houses.
- (iv) The Rajya Sabha suggests amendments to the bill, the bill then goes back to the Lower House. If the Lok Sabha accepts one or more of the amendment then the bill is deemed to have been passed in that form on the other hand if Lok Sabha rejects the amendment then the bill is deemed to have been passed in its original form.

There is no deadlock between the Houses over the passage of a money bill. When a money bill is presented to the President, under the Constitution he shall declare that he give assent or withhold assent.

Financial Bill

A Bill apart from dealing with one or more money matters if also deals with one or more non-money matters then it is called a financial Bill. It is introduced in the same manner as that of money Bill. Since it contains non-money matters after its introduction, it is passed in same manner an ordinary bill is passed.

Constitutional Amendment Bill

A bill introduced under article 368 to amend one or more provisions of the Constitution is called a Constitutional Amendment Bill.

- It can be introduced in either House of the Parliament.
- It does not require the recommendation of President for its introduction. It shall be passed by both the House of the Parliament sitting separately by majority of not less than 2/3rd of members present & voting & a majority of total strength of the House.
- The Constitution does not provide for a joint sitting of both the Houses of the Parliament if a deadlock develop between the two Houses over the passage of a Constitutional Amendment Bill.
- **The 101 Amendment:** Amendment of article 248, 249, 250, 268, 269, 270, 271, 286, 366, 368, sixth schedule, seventh schedule. Deletion of Article 268A. It was enforced since 8 September 2016. It is related to the Goods and Services Tax Bill.

Veto power of the President:

A bill passed by the Parliament can become an act only if it receives the assent of the President.

However, the President has the veto power over the bills passed by the Parliament, i.e. he can withhold his assent to the bills.

• Absolute Veto

It refers to the power of the President to withhold his assent to a bill passed by the Parliament. The bill then ends & does not become an act. Usually, this veto is exercised in the following two cases:

- a) With respect to private members' bills; &
- b) With respect to the government bills when the cabinet resigns (after the passage of the bills but before the assent by the President) & the new cabinet advises the President not to give his assent to such bills.

• Suspensive Veto

The President exercises this veto when he returns a bill for reconsideration of the Parliament. However, if the bill is passed again by the Parliament with or without amendments & again presented to the President, it is obligatory for the President to give his assent to the bill. The President does not possess this veto in the case of money bills.

• Pocket Veto

In this case, the President neither ratifies nor rejects nor returns the bill, but simply keeps the bill pending for an indefinite period. This power of the President not to take any action (either positive or negative) on the bill is known as pocket veto. There is no time limit for the President to give comment on bills under this veto.

Emergency Provisions in India

Emergency provisions are adopted in India from Weimar Constitution of Germany.

In Indian constitution there are three kind of emergency provisions:

(1) Article 352 – National Emergency

(2) Article 356 – President's Rule

(3) Article 360 – Financial Emergency

National Emergency (Article 352)

- a) If the President is satisfied that there exist a grave emergency whether due to war or external aggression or armed rebellion, then President can proclaim emergency to that effect. Such a proclamation can be made for the whole of India or any part thereof. The President can proclaim National Emergency only on the written advice of the Cabinet.
- b) The President has power to revoke or modify the National Emergency. All such proclamations of Emergency shall have to be sent to Parliament for approval & it ceases to be operational if not

approved within 1 month of the proclamation of Emergency. Such approval by Parliament is to be on the basis of Special Majority of not less than 2/3rd of members present & voting & the majority of the House. Emergency shall be imposed for not more than 6 months from the date of approval.

- c) At the expiry of 6 months it ceases unless approved by Parliament again. If Lok Sabha is dissolved then proclamation of Emergency, it must be approved by the Rajya Sabha within 1 month & reconstituted Lok Sabha must approve within 1 month of its reconstitution.
- d) Lok Sabha enjoys powers to disapprove continuation of Emergency at any stage. In such case if not less than 1/10th of members (55) of Lok Sabha give in writing to the Speaker if Lok Sabha is in session or to the President if Lok Sabha is not in the session, expressing intention to move resolution for the disapproval of National Emergency. Then special session of Lok Sabha shall be convened within 14 days. If Lok Sabha disapproves continuance of National Emergency then President shall have to revoke National Emergency.

Emergency in States on President's Rule (Article 356)

Under Article 356 if the President is satisfied on the report of Governor or otherwise that there exists a grave situation in a State where the administration of the State cannot be carried out in accordance with provisions of Constitution, then he can:

- (a) Takeover the administration of the State himself and
 - (b) Notify that the Parliament shall exercise jurisdiction over State subject for the State concerned, the President cannot take over the powers conferred on the High Courts of State concerned.
- Every proclamation made under Article 356 ceases to be in operation unless approved by both Houses of the Parliament within 2 months after its proclamation.
 - Once, approved by Parliament, Emergency shall be enforced for not more than 6 months from the date of proclamation by the President.
 - Such an approval by the Parliament needs only simple Majority.
 - If Lok Sabha stands dissolved then Rajya Sabha shall have to approve it within 2 months & Lok Sabha shall approve it within 1 month of its reconstitution.
 - However, Parliament can extend it for a further period of 6 months only.

If it has to approve beyond 1 year then two conditions shall have to be satisfied.

There shall be National Emergency in force either in whole of the State concerned or in part thereof.

Election Commission is satisfied that under prevailing conditions general election to State Legislative Assembly of the State concerned cannot be held.

But under no circumstances, State Emergency cannot be extended beyond 3 years. To extend it further, constitutional amendment is required.

Financial Emergency

Under Article 360 the President enjoys the power to proclaim the financial Emergency. If he is satisfied that a situation has arisen that financial stability & credit of India or any part thereof is threatened he may proclaim emergency to that effect.

All such proclamations:

- (a) Can be varied or revoked by the President.
- (b) Financial Emergency must be approved by the Parliament within 2 months after its proclamation. Once it is approved, it will remain till the President revokes it.

Effects of Financial Emergency

- (1) President is empowered to suspend the distribution of financial resources with States.
- (2) President can issue directions to States to follow canons of financial propriety.
- (3) He can direct State Govt. to decrease salaries allowances of Civil Servants & other Constitutional dignitaries.
- (4) President can direct the Govt. to resume all the financial & Money Bills passed by legislature for his consideration. The President can issue directions for the reduction of salaries & allowances of Judges of the Supreme Court & the High Courts.

STATE LEGISLATURE

The State Legislature Legislative Assembly (Vidhan Sabha)

The Vidhan Sabha or the Legislative Assembly is the lower house of the state legislature in the different states & for the two of the union territories, Delhi & Pondicherry.

- Members of a Vidhan Sabha are direct representatives of the people of the particular state as they are directly elected by the adult suffrage.
- Each Vidhan Sabha is formed for a five year term after which all seats are up for election.
- The maximum size of Vidhan Sabha is not more than 500 members & not less than 60. However, the size of the Vidhan Sabha can be less than 60

members through an Act of Parliament, such is the case in the states of Goa, Sikkim & Mizoram.

- The Governor can appoint one member to represent the Anglo-Indian community if he or she finds that community to not be adequately represented in the House.

Qualification to be a member of Vidhan Sabha

1. To become a member of a Vidhan Sabha:
2. A person must be a citizen of India
3. She/he must have attained 25 years of age.
4. She/he should be mentally sound & should not be bankrupt.
5. She/he should also state an affidavit that there are no criminal procedures against him.

Vidhan Sabha via-a-vis Lok Sabha

The position of Vidhan Sabha is relatively stronger than Lok Sabha when it comes to the relation with the respective upper houses. The following are differences in the legislative procedures:

1. In case of Bills other than money Bills the position of Vidhan Sabha is stronger as compared to Lok Sabha. While disagreement between the two Houses of the Union Parliament is resolved by "Joint Sitting", there is no such provision of solving the deadlock at the state level. The upper house at the state level can just delay the bill for the maximum period of 4 months i.e. 3 months in first journey & 1 month in second journey.
2. While the period for passing a Bill (other than money Bill) from Rajya Sabha is six months is the case of Legislative Councils it is just three months.

Legislative Council (Vidhan Parishad)

- The Legislative Council is a permanent body that cannot be dissolved; each Member of the Legislative Council (MLC) serves for a six-year term, with terms staggered so that the terms of one-third of a Council's members expire every two years.
- This arrangement parallels that for the Rajya Sabha, the upper house of the Parliament of India.
- Six states in India have a Legislative Council: Andhra Pradesh, Bihar, Jammu & Kashmir, Karnataka, Maharashtra, & Uttar Pradesh.

Qualification to be a member of Vidhan Parishad

- ✚ She/he must be citizen of India
- ✚ She/he must have attained at least 30 years of age
- ✚ She/he must be mentally sound,
- ✚ She/he must not be a bankrupt

- ✚ She/he must be listed the voters' list of the state for which he or she is contesting an election.

Election of members of Legislative Council

- ✚ One-third of the members are elected by members of local bodies such as corporations, municipalities, & Zilla Parishads.
- ✚ One-third of the members are elected by members of Legislative Assembly from among the persons who are not members of the Assembly.
- ✚ One-twelfth of the members are elected by the persons who are graduates of three years' standing residing in that state.
- ✚ One-twelfth are elected by persons engaged for at least three years in teaching in educational institutions within the state not lower than secondary schools, including colleges & universities.
- ✚ One-sixth are nominated by the governor from persons having knowledge or practical experience in fields such as literature, science, arts, the co-operative movement & social service.

Governor

The Governor is merely appointed by the President which really means, by the Union Council of Ministers. The Governor holds office during the pleasure of the President, there is no security of his tenure. He can be removed by the President at any time. There is no impeachment process for removal of Governors as prescribed in constitution in the case of President.

The powers of Governors

Executive Powers

- ✚ The Governor appoints the Chief Minister who enjoys the support of the majority in the Vidhan Sabha.
- ✚ The Governor also appoints the other members of the Council of Ministers & distributes portfolios to them on the advice of the Chief Minister.
- ✚ He/she also appoints the Advocate General & the chairman & members of the State Public Service Commission.
- ✚ The Governor appoints the judges of the District Courts.

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Legislative Powers

- ✚ Summons the sessions of both houses of the state legislature & prorogues them.
- ✚ Inaugurates the state legislature by addressing it after the assembly elections & also at the beginning of the first session every year.
- ✚ Can even dissolve the Vidhan Sabha. These powers are formal & the Governor while using these powers must act according to the advice of the Council of Ministers headed by the Chief Minister.
- ✚ The Governor's address on these occasions generally outlines new policies of the state Govt.
- ✚ A bill that the state legislature has passed can become a law only after the Governor gives assent.
- ✚ Can return a bill to the state legislature, if it is not a money bill, for reconsideration
- ✚ Has the power to reserve certain bills for the President.
- ✚ When the state legislature is not in session & the Governor considers it necessary to have a law, then the Governor can promulgate ordinances.

Financial Powers

- ✚ Money bills can be introduced in the State Legislative Assembly only on the prior recommendation of the Governor.
- ✚ Governor also causes to be laid before the State Legislature the annual financial statement which is the State Budget.
- ✚ Further no demand for grant shall be made except on his/her recommendation.
- ✚ He can also make advances out of the Contingency Fund of the State to meet any unforeseen expenditure.
- ✚ Governor constitutes the State Finance Commission

Discretionary Powers

There are situations when the Governor has to act as per his/her own judgment & take decisions on his own. Such powers are called discretionary Powers:

- ✚ When no party gets a majority in the Vidhan Sabha, the Governor can either ask the leader of the single largest party or the consensus leader of two or more to form the Govt.. The Governor then appoints the leader of the largest party to Chief Minister.
- ✚ The Governor can send a report to the President informing him or her that the State's constitutional functioning has been compromised & recommending the President impose "President's rule" upon the state.
- ✚ Governor can reserve any Bill for the President.

Governor's power of Veto

When a Bill is presented before the Governor after its passage by the house(s) of the state legislature, the Governor may take any of the following steps:

1. He may declare his assent to the Bill
2. He may declare that he withholds his assent to the Bill
3. He may (in case of a Bill other than money Bill), return the Bill with a message
4. The Governor may also reserve a Bill for the consideration of President

The President enjoys absolute veto in the case of Bills reserved for him by the Governors. The president may act in the following manner:

1. In case of money Bill President may either declare his assent or withhold his assent.
2. In the case of Bills other than money Bill the President apart from declaring his assent or refusing it, direct the Governor to return the Bill to the Legislature for recommendations in such cases.

Local Self-Governance

Panchayati Raj

- ✚ The Panchayati Raj System is the **first tier** or level of democratic government.
- ✚ The term Panchayati Raj in India signifies the system of rural local self-government. It was constitutionalized through the **73rd Constitutional Amendment Act of 1992**.
- ✚ The development of the village was the immediate problem faced by our country after independence. Hence the **Community Development Programme** was launched in 1952 with a view to carrying out the integral rural development work.
- ✚ **Rajasthan** was the first state to set up Panchayati Raj System in 1959 followed by Andhra Pradesh.

Main Provisions of 73rd Amendment Act

- This act has added a new **Part-IX** to the Constitution of India.
- It is entitled as 'The Panchayats' & consists of provisions from **Articles 243(A) to 243 (O)**. In addition, the act has also added a new **Eleventh Schedule** to the Constitution. It contains 29 functional items of the panchayats.
- Fixing tenure of five years for Panchayats at all levels & holding fresh elections within six months in the event of supersession of any Panchayat.
- Reservation of 1/3 seats (both members & chairpersons) for women in Panchayats at all the levels.
- The Act provides for a three-tier system of the Panchayati Raj in the states namely:
 - (i) **Gram Panchayat** at the Village level.
 - (ii) **Panchayat Samiti** at the Block level.
 - (iii) **Zila Parishad** at the District level.

Compulsory Provisions for Panchayati Raj Institutions

1. Organisation of Gram Sabha in a village or group of villages.
2. Establishment of Panchayats at the village, intermediate & district levels.
3. **21 years** to be the minimum age for contesting elections to Panchayats.
4. Reservation of seats (both members & chairpersons) for SCs & STs in Panchayats at all the three levels.
5. Reservation of **one-third seats** (both members & chairpersons) for women in Panchayats at all the three levels.
6. Fixing tenure of **five years** for Panchayats at all levels & holding fresh elections within six months in the event of supersession of any Panchayat.
7. Establishment of a **State Election Commission** for conducting elections to the Panchayats.
8. Constitution of a **State Finance Commission** after every five years to review the financial position of the panchayats.

Organisational Structure

(i) Gram Panchayat at the Village level

The members of the Gram Panchayat are elected by the Gram Sabha. The **Pradhans** (Presidents) of the Gram Sabha are the ex-officio members of the Gram Panchayat. **Note: Gram Sabha** means a body consisting of persons registered in the electoral rolls relating to a village comprised within the area of Panchayat at the village level.

(ii) Panchayat Samiti at the Block level

The Panchayat Samiti has many Gram Panchayats under it. All the Presidents of the Panchayats within the Block are the ex officio members of the 'Panchayat Samitis'.

(iii) Zila Parishad at the District level

- Zila Parishad is an apex body under the Panchayati Raj. It co-ordinates the activities of the various Panchayat Samitis.
- Zila Parishad actually makes developmental plans at the district level.
- With the help of Panchayat Samitis, it also regulates the money distribution among all the Gram Panchayats.

JUDICIARY

Supreme Court of India

Supreme Court of India is the highest judicial forum & final court of appeal. According to the Constitution of India, the role of the Supreme Court is that of a federal court & guardian of the Constitution.

Composition of Supreme Court

Under Article 124(1) the constitution originally provided for 1 Chief Justice of India & not more than 6 other judges. The constitution authorizes the Parliament to provide by law in fixing the Strength of the judges of the Supreme Court.

The Parliament passed the Supreme Court (Number of Judges), a Constitutional Amendment Act in 2008, it has increased the strength of Supreme Court to 31 (1 Chief Justice + 30 other judges).

Qualification to be a judge of Supreme Court

1. A person must be a citizen of India
2. He/she must have been, for at least five years, a Judge of a High Court or of two or more such Courts in succession
3. Or an Advocate of a High Court or of two or more such Courts in succession for at least ten years
4. Or the person must be, in the opinion of the President, a distinguished jurist.

Removal of judges of Supreme Court

- Article 124(4) provides for the removal of a judge of the Supreme Court.
- He is removed by the President upon an address by both the Houses of the Parliament supported by a majority of not less than 2/3rd of members present & voting & a majority of total strength of the House on the ground of misbehavior or incapacity.
- **The President shall pass the order of removal in the same session in which the Parliament passed the resolution.**
- Article 124(5) confers the power on the Parliament to provide by law for the procedure for the Presentation of an address & for the

investigation for proof of misbehavior or incapacity of a judge.

- Accordingly the Parliament passed Judges (Inquiry) Act 1968 which states that a resolution seeking the removal of a judge of Supreme Court can be introduced in either House of Parliament.
- ✚ It should be supported by not less than 100 member of Lok Sabha.
- ✚ If it is to be introduced in Rajya Sabha it should be supported by no less than 50 members of Rajya Sabha.
- ✚ Once the resolution is initiated in either house of the parliament, the presiding officer of that House shall appoint a three member Judicial Committee to investigate into charges & provide proof of misbehavior or incapacity.
- ✚ The judicial committee shall be headed by a serving judge of the Supreme Court. Second member can be a serving judge of the High Court & the third member can be an eminent jurist.

SUPREME COURT IN INDIA(JURISDICTION)

- It is the highest judicial forum & final court of appeal as established by Part V, Chapter IV of the Constitution of India.
- Articles 124 to 147 of the Constitution of India lay down the composition & jurisdiction of the Supreme Court of India.
- The Supreme Court has Original jurisdiction, Appellate jurisdiction & Advisory jurisdiction.
- The Supreme Court is the highest appellate court which takes up appeals against the verdicts of the High Courts & other courts of the states & territories.
- The Supreme Court has the power to transfer the cases from one High Court to another & even from one District Court of a particular state to another District Court of the other state.
- The Supreme Court has the power of Constitutional review.
- The Supreme Court of India held its inaugural sitting on 28 January 1950.

Salary-Article 125 of the Indian Constitution leaves it to the Indian Parliament to determine the salary, other allowances, leave of absence, pension, etc. of the Supreme Court judges. However, the Parliament cannot alter any of these privileges & rights to the judge's disadvantage after his appointment. A judge gets ₹90,000 & the Chief Justice gets a sum of ₹ 1,00,000.

Some Important Points on SC

1. The first woman judge of the Supreme Court was Justice Fatima Beevi in 1987. However, there has been no female Chief Justice
2. Ad hoc Judges:
 - a) Ad hoc Judges are non-Supreme Court judges who sit in the Supreme Court when there is insufficient quorum to perform the judicial duties.
 - b) Ad hoc Judges are appointed by the Chief Justice after obtaining consent from the President.
 - c) Serving (HC) & retired(SC & HC) judges of the Supreme Court (and High Courts) can sit & act as ad hoc Judges of the Supreme Court.
 - d) Only such persons can be appointed as ad hoc Judges who are qualified to be appointed as a regular Judge of the Supreme Court
3. The Chief Justice administers the oath in front of the President.
4. The first Chief Justice of India was H J Kania (1950 – 1951).
5. The shortest tenure was for K N Singh (Nov 1991 – Dec 1991, UP)
6. The longest tenure was for Y V Chandrachud (1978 – 1985, Bombay)

JURISDICTION OF THE SUPREME COURT

a) Original Jurisdiction:

1. Original Jurisdiction means that certain types of cases can originate with the Supreme Court only
2. The Supreme Court has original jurisdiction in
 - a) Disputes between the Centre & one or more states.
 - b) Disputes between the Centre & any state(s) on one side & one or more states on the other side.
 - c) Disputes between two or more states.
 - d) Disputes regarding the enforcement of Fundamental Rights.

b) Appellate Jurisdiction:

Appellate Jurisdiction means that appeals against judgements of lower courts can be referred to SC as the Supreme Court is the highest court of appeal in the country.

c) Advisory Jurisdiction:

1. Advisory Jurisdiction refers to the process where the President seeks the Court's advice on legal matters.
2. If the President asks for advice from the Supreme Court, the Court is duty-bound to give it. However, it is not binding on the President to accept the advice.

HIGH COURT

- 1) The High Court is at the apex of the judicial administration of the state.

- 2) Art 214 of the Constitution provides that there shall be a High Court for each state of the Indian union. But the Indian Parliament is empowered to establish a common High Court for two or more states & to extend the jurisdiction of a High Court to a union territory. Similarly, Parliament can also reduce the area of jurisdiction of a High Court.
- 3) The High Court consists of a Chief Justice & some other Judges. The number of judges is to be determined by the President of India from time to time.
- 4) The Chief Justice of a High Court is appointed by the President in consultation with the Chief Justice of the Supreme Court & the Governor of the state concerned. The procedure for appointing other judges is the same except that the Chief Justice of the High Court concerned is also consulted. HC JUDGE hold office until they attain the age of 62 years & are removed from office in the same manner as a judge of the Supreme Court.

Qualification

A person shall be qualified for appointment as a judge of the High Court if

- (a) he is a citizen of India,
- (b) has for at least ten years held a judicial office in the territory of India, or
- (c) has for at least ten years been an advocate of a High Court, or of two or more such courts in succession.

Every judge of the High Court before entering upon his office shall make & subscribe before the Governor of the state, an oath of affirmation in the form prescribed by the Constitution.

Removal of judges

A judge of the High Court shall hold office until he attains the age of 62 years. A judge may resign from his office by writing under his hand to the president of India. He can also be removed by the President of India on the ground of proved misbehavior or inefficiency if a resolution to that effect is passed by both the Houses of Parliament by a two-thirds majority of the total members present & voting, supported by a majority of the total membership of each house.

Jurisdiction of a HC

The High Court has Original jurisdiction in such matters as writs & Appellate jurisdiction over all subordinate courts in their jurisdiction. Every High court has the power to issue to any person or authority including any Govt. within its jurisdiction, direction, or orders including writs which are in the nature of habeas corpus, mandamus prohibition, qua-warranto & certiorari or any of them for

enforcement of fundamental rights conferred by part III of the constitution & for any other purpose.

- 1) Election petitions challenging the elections of Members of Parliament or member of State Legislative Assembly or other local bodies can be filed in the concerned High Court.
- 2) The High Courts have Appellate jurisdiction in both civil & criminal cases against the decisions of lower courts.

Under Revisory jurisdiction, the High Court is empowered to call for the records of any court to satisfy itself about the correctness of the legality of the orders passed. This power may be exercised on the petition of the interested party or it can suo moto call for the records & pass necessary orders.

All Courts excepting tribunals dealing with the Armed forces, are under the supervision of the High Court. Tribunals dealing with the Armed forces are not under the supervision of HC.

This power is enjoyed under Article 227 of the Constitution. Thus administration of the state's judiciary is the essential function of the High Court.

Writs in Indian Constitution

As per the Right to Constitutional Remedies-Articles 32-35, A citizen has right to move to the courts for securing the fundamental rights. Citizens can go to the Supreme Court or the high Courts for getting their fundamental rights enforced. It empowers the Courts to issue directions or orders or writs for this purpose. Writs are issued for enforcement of FUNDAMENTAL RIGHTS BY EITHER SC or HC.

Types of Writs:

1. Habeas Corpus:

- (a) Habeas Corpus means 'you may have the body'.
- (b) This ensures that a prisoner can be released from unlawful detention—that is, detention lacking sufficient cause or evidence.

2. Quo Warranto:

- (a) The meaning of the term Quo Warranto is 'by what authority'.
- (b) The writ shall be issued only when the public office is held by a particular person in an illegal manner.
- (c) If a person has usurped a public office, the Court may direct him not to carry out any activities in the office or may announce the office to be vacant.

3. Mandamus:

- (a) A writ of mandamus is an order issued by a superior court to a lower court or other entity

commanding the lower court, corporation or public authority to perform or not perform specific acts.

(b) It cannot be issued to compel an authority to do something against statutory provision.

4. Certiorari:

(a) It is a writ (order) of a higher court to a lower court to send all the documents in a case to it so the higher court can review the lower court's decision.

(b) It is a writ seeking judicial review.

(c) Granting a writ of certiorari means merely that at least four of the justices have determined that the circumstances described in the petition are sufficient to warrant review by the Court.

5. Prohibition:

(a) A writ of prohibition is issued primarily to prevent an inferior court from exceeding its jurisdiction.

(b) These Writs are issued as "alternative" or "peremptory." An alternative Writ directs the recipient to immediately act, or desist, & "Show Cause" why the directive should not be made permanent. A peremptory Writ directs the recipient to immediately act, or desist, & "return" the Writ, with certification of its compliance, within a certain time.

(c) The writ can be issued only when the proceedings are pending in a court if the proceeding has matured into decision, writ will not lie.

Union Territories

- **Articles 239 to 241** in Part VIII of the Constitution deal with the union territories. Even though all the union territories belong to one category, there is no uniformity in their administrative system.
- Every union territory is administered by the president acting through an administrator appointed by him. An administrator of a union territory is an agent of the president & not head of state like a governor.
- The president can specify the designation of an administrator; it is Lieutenant Governor in the case of Delhi, Puducherry & Andaman & Nicobar Islands & Administrator in the case of Chandigarh, Dadra & Nagar Haveli, Daman & Diu & Lakshadweep.
- The Parliament can make laws on any subject of the three lists (including the State List) for the union territories. This power of Parliament also extends to Puducherry & Delhi, which have their own local legislatures but the legislative assembly of both (Delhi & Puducherry) can also make laws on any subject of the State List & Concurrent List. This means that the legislative power of Parliament for the union territories on subjects of the State List

remain unaffected even after establishing a local legislature for them.

Special Status of Jammu & Kashmir

Article 370 in Part XXI of the Constitution grants a special status to it. Accordingly, all the provisions of the Constitution of India do not apply to it. It is also the only state in the Indian Union which has its own separate Constitution.

The important features of the special state are as follows:

1. Contrary to the case with the other states, the residuary power lies with the legislature of the Jammu & Kashmir (and not the Parliament).
2. The state has its own Constitution. This also implies that 'dual citizenship' principle is followed in this state.
3. Part-IV (Directive Principles of State Policy) & Part-IV(A) (Fundamental Duties) are not applicable to the state.
4. The National Emergency proclaimed only on the ground of war or external aggression shall have automatic extension to the state of J&K. This means that the National Emergency proclaimed on the ground of armed rebellion shall not have automatic extension to J&K.
5. Financial Emergency (Art 360) cannot be imposed on the state.
6. Art. 19(1) & 31(2) have not been abolished for this state & hence "right to property" still stands guaranteed to the people of J&K.
7. The Parliament is not empowered to make laws on the subjects of state list (7th schedule) for the state of J&K under any circumstance.
8. The Governor of the state is to be appointed only after consultation with the Chief Minister of that state.

GOVERNMENT BODIES

1) Election Commission

- The Election Commission is a permanent, independent body established by the Constitution of India directly to ensure free & fair elections in the country. Article 324 of the Constitution provides that the power of superintendence, direction & control of elections to parliament, state legislatures, the office of president of India & the office of vice-president of India shall be vested in the election commission.
- Elections are conducted according to the constitutional provisions supplemented by laws made by Parliament.
- The major laws are Representation of the People Act, 1950, which mainly deals with the preparation & revision of electoral rolls, & the Representation of

the People Act, 1951, which deals in detail with all aspects of conduct of elections & past election disputes.

- The electoral system in India is borrowed from the one operating in Great Britain. Presently, the Election Commission consists of one Chief Election Commissioner (CEC) & two Election Commissioners.
- The Commission works under the overall supervision of the Chief Election Commissioner.
- The tenure of the CEC & the Election Commissioners has been fixed as six years, subject to the maximum age limit of 65 years (whichever is earlier).
- The Chief Election Commissioner & the Election Commissioners are placed at par in matters of salary & allowances & they are the same as those of a judge of Supreme Court.
- The Chief Election Commissioner is not eligible for reappointment.
- The Election Commission is not concerned with the elections to Panchayats & municipalities in the states.
- The elections to the Panchayats & the municipalities in the states are conducted by 'State Election Commissions'.

Independence of CEC

Article 324 of the Constitution has made the following provisions to safeguard & ensure the independent & impartial functioning of the Election Commission:

1. The Chief Election Commissioner is provided with the security of tenure. He cannot be removed from his office except in same manner & on the same grounds as a judge of the Supreme Court.
2. The Election Commissioner cannot be removed from office except on the recommendation of the Chief Election Commissioner.

Powers & functions

1. To determine the territorial areas of the electoral constituencies throughout the country on the basis of the Delimitation Commission Act of Parliament.
2. To prepare & periodically revise electoral rolls & to register all eligible voters.
3. To notify the dates & schedules of elections & to scrutinise nomination papers.
4. To grant recognition to political parties & allot election symbols to them.
5. To act as a court for settling disputes related to granting of recognition to political parties & allotment of election symbols to them.
6. To determine the code of conduct to be observed by the parties & the candidates at the time of elections.

7. To advise the President on matters relating to the disqualification of the members of Parliament.
8. To advise the governor on matters relating to the disqualification of the members of state legislature.
9. To cancel polls in the event of rigging, booth capturing, violence & other irregularities.
10. To register political parties for the purpose of elections & grant them the status of national or state parties on the basis of their poll performance

Union Public Service Commission

- With the promulgation of the new Constitution for independent India on 26th January, 1950, the Federal Public Service Commission was accorded a constitutional status as an autonomous entity & given the title – Union Public Service Commission.
- The UPSC has been established under Article 315 of the Constitution of India. The Commission consists of a Chairman & ten Members.
- The chairman & members of the commission hold office for a term of six years or until they attain the age of 65 years, whichever is earlier.
- It is an independent constitutional body.
- The main function of UPSC is Recruitment to services & posts under the Union through conduct of competitive examinations.



State Public Service Commission

- A state public service commission consists of a chairman & other members appointed by the governor of the state. But they can be removed only by the President.
- It is an independent constitutional body.
- The chairman & members of the commission hold office for a term of six years or until they attain the age of 62 years, whichever is earlier.
- The main function of SPSC is to conduct examinations for appointments to the services of the state.

Joint State Public Service Commission

- The Constitution makes a provision for the establishment of a Joint State Public Service Commission (JSPSC) for two or more states.
- A JSPSC can be created by an act of Parliament on the request of the state legislatures concerned. Thus, a JSPSC is a statutory & not a constitutional body.
- The chairman of JSPSC is appointed by the President.

Comptroller & Auditor General

- The Constitution of India (Article 148) provides for an independent office of the Comptroller & Auditor General of India (CAG).
- It is the supreme audit institution of India.
- He is the head of the Indian Audit & Accounts Department & the guardian of the public purse & controls the entire financial system of the country at both the levels—the Centre & the state.

Appointment & term

- The CAG is appointed by the President of India. He holds office for a period of six years or up to the age of 65 years, whichever is earlier.
- He can resign any time from his office by addressing the resignation letter to the president. He can also be removed by the President on same grounds & in the same manner as a judge of the Supreme Court.

Main function of the CAG

1. He audits the accounts related to all expenditure from the Consolidated Fund of India & consolidated fund of each state.
2. He audits all expenditure from the Contingency Fund of India & the Public Account of India as well as the contingency fund of each state & the public account of each state.
3. He audits the accounts of any other authority when requested by the President or Governor.

Note: He submits his audit reports relating to the accounts of the Centre to President & relating to the accounts of a state to governor.

Attorney General of India

- Art. 76 states that the President shall appoint a person who is qualified to be appointed as a judge of the Supreme Court to be the Attorney General of India.
- He is the first legal officer of the Government of India.
- The term of office of the AGI is not fixed by the Constitution of India.
- He holds office during the pleasure of the President & receives remuneration as the President may

determine. Although, he is not a member of either House of Parliament, he enjoys the right to attend & speak in the Parliamentary deliberations & meeting (of both the Lok Sabha & the Rajya Sabha), without a right to vote.

- He advises the Government of India on any legal matter.
- He performs any legal duties assigned by the President of India.
- He discharges any functions conferred on him by the Constitution or the President.
- In the performance of his official duties, the Attorney General has the right of audience in all courts in the territory of India.
- He is entitled to all the privileges & immunities as a Member of Parliament.

Note: The Constitution (Article 165) has provided for the office of the advocate general for the states. He is the highest law officer in the state. Thus, he corresponds to the Attorney General of India. He is appointed by the Governor of the state.

Parliamentary Funds

Consolidated Fund of India

1. Article 266 has established Consolidated Fund of India.
2. It is a constitutional fund.
3. All the receipts received, loans raised & the income of the Govt. of India are deposited into a Fund called the Consolidated Fund of India.
4. It is the largest fund of the Govt. of India & any amount of money can be deposited into this account.
5. It is a regular fund of Govt. of India.
6. All expenditures of the Govt. of India are spent out of the Consolidated Fund of India.
7. It has been placed at the disposal of the Parliament. No money can be deposited into withdrawn or appropriated out of the Consolidated Fund of India without the prior sanction of the Parliament. Article 266 has also created a separate Consolidated Fund for each State.

Public Account of India

- Under Article 266 any money other than the receipts, loans & the income received by the Govt. of India is deposited into an account called the Public Account of India.
- The Public Account of India is placed at the disposal of the President article 266 has also created public account for each states.

Contingency Fund of India

- Article 267 empowers the Parliament to provide by law for the establishment of a public fund called the Contingency Fund of India.
- Accordingly, the Parliament enacted the Contingency Fund of India (Misc. Provisions Act) 1950, which has created the contingency Fund of India with an upper limit of Rs. 50 Cr. It is not a regular fund of Govt. of India & it is used to meet on unforeseen expenditures of the Govt. of India.
- It is placed at the disposal of President who can provide the sanction for meeting an emergency expenditure out of contingency Fund of India.
- The Fund is used when the Parliament is not in a position to sanction money out of Consolidated Fund of India to meet an unforeseen expenditure.
- The money so sanctioned out of contingency fund of India by the President is placed before the Parliament for its approval subsequently.
- If the Parliament approves the expenditure then the equal amount of money is transferred from Consolidated Fund of India to Contingency Fund of India. Thus the Contingency Fund is replenished by the Contingency Fund.
- The Parliament by law may increase the upper limit of Contingency Fund either permanently or temporarily.

Political Parties

A recognised political party has been classified either as a "national party" or a "state party". Recognition to a party is granted by the "Election Commission of India".

Conditions for Recognition as a National Party

A party is recognized as a national party if any of the following conditions is fulfilled:

- If it wins 2% of seats in Lok Sabha at a general election; and these candidates are elected from three states; or
- If it secures 6% of valid votes polled in any four or more states at a general election to the Lok Sabha or to the legislative assembly; & in addition, it wins four seats in the Lok Sabha from any state or states; or
- If it is recognized as state party in your states.

Important Points to look at

- The estimate of expenditure in respect of a Ministry/Department not charged upon the Consolidated Fund of India, placed for approval before the House on the recommendations of the President -**Demand for Grant**.
- A Bill passed annually (or at various times of the year) providing for the withdrawal or appropriation from & out of the Consolidated Fund of India of moneys by Lok Sabha & moneys

charged on the Consolidated Fund for the services of a financial year or a part thereof-**Appropriation Bill**.

- A motion for reduction of a demand for grant by or to a specified amount-**Cut motion**.
- Cut motion can be of three types - **Disapproval of policy cut, Economy cut & Token cut**.
- A grant made by Lok Sabha in advance in respect of the estimated expenditure of the Government of India for a part of a financial year pending the voting of Demands for Grants for the financial year. A Motion for Vote on Account is dealt with in the same way as if it were a demand for grant.-**Vote on Account**.
- The first hour of a sitting of the House normally allotted for asking & answering of questions-**Question Hour**.

Motions in Parliament

(1) Private Member's business

Every member who is not a Minister is called a Private Member. The Private Member's business includes Private Member's Bills & Private Member's Resolutions. The period of notice for introduction of Bill is one month unless the Presiding officer allows introduction at a shorter notice.

(2) Question Hour

Normally, the first hour of the business of a House everyday is devoted to questions & is called Question Hour (11:00 AM to 12:00 Noon).

(3) Starred & Unstarred Questions

A starred question is one to which a member desires an oral answer in the House. Answer to such a question may be followed by five supplementary questions by other members. An unstarred question is one to which written answer is desired by the Member. No supplementary questions can be asked thereon.

(4) Short Notice Questions

These are related to matter of urgent public importance & can be asked by members with notice shorter than the 10 days prescribed for an ordinary question. It is for the Speaker to determine whether the matter is of real urgent nature or not.

(5) Adjournment Motions

An adjournment motion is an extra-ordinary procedure which if admitted leads to setting aside the normal business of the House for discussing a definite matter of Urgent Public importance.

(6) Calling Attention

It is a notice by which a member with the prior permission of the Speaker, Calls the attention of a Minister of any matter of urgent public importance & the Minister may make a brief statement or ask for time to make a statement at a later hour or date it is an Indian Innovation.

There is no calling attention Notice in the Rajya Sabha. Instead there exists a motion called 'Motion for Papers.'

(7) Privilege Motion

This motion is moved by a member if in his opinion any minister or any of the members commits a breach of privilege of the House by withholding any fact.

A Brief on GST

GST is one indirect tax for the whole nation, which will make India one unified common market. GST is a single tax on the supply of goods and services, right from the manufacturer to the consumer. Credits of input taxes paid at each stage will be available in the subsequent stage of value addition, which makes GST essentially a tax only on value addition at each stage. The final consumer will thus bear only the GST charged by the last dealer in the supply chain, with set-off benefits at all the previous stages.

It will be a national sales tax that will be levied on either consumption of goods or use of services. It will replace 16 current levies -seven central taxes like excise duty and service tax and nine state taxes like VAT and entertainment tax, this will lead to one market with one tax rate. France was the first country to implement the GST in 1954.

GST Council finalises the tax rates on Goods & Services under the 4-slab structure

GST Council finalised tax rates on goods and services under the four-slab structure with essential items of daily use being kept in the lowest bracket of 5 percent.

Key Points on Union Budget

In a parliamentary democracy like India, where the Constitution is the supreme document with defined roles for the government to function effectively, it is imperative for the government to work for the welfare of the state and its citizens. To discharge these functions effectively and upgrade the country's economic and social structure, the government requires adequate resources.

Article 112: A statement of estimated receipts and expenditure of Govt. of India has to be laid before the parliament.

Article 77 (3): The union Finance Minister of India has been made responsible by the President of India to prepare the annual financial statement and present it in Parliament.

Article 114: The government can withdraw money from the Consolidated Fund of India only on approval from Parliament.

- There are three major categories of government accounts:
 1. **Consolidated Fund**
 2. **Contingency Fund**
 3. **Public Account**

Nodal agency responsible for producing the Union Budget: The department of economic affair under the Ministry of Finance.

The Annual Financial Statement or The Budget contains:

- Estimates of expenditure.
- Ways and means to raise the revenue.
- Actual figures for preceding year.
- Budget and revised figures for the current year.
- Budget estimates for the following year.

In parliament, the budget goes through 5 stages:

- 1. Presentation of budget with Finance Minister's speech.
- 2. General discussion of the budget.
- 3. Voting on demand for grants in Lok Sabha
- 4. Passing of appropriation bills.
- 5. Passing of Finance bills.

The Parts of Budget:

- 1) **Revenue Budget:** All 'current' 'receipts' such as taxation, surplus of public enterprises, and 'expenditures' of the Government.
- 2) **Capital Budget:** All 'Capital' 'receipts' and 'expenditure' such as domestic and foreign loans, loan repayments, foreign aid etc.

The inspection of budget proposals:

- **Committee on Estimates**
- Constituted for the first time in 1950, is a Parliamentary Committee consisting of 30 Members
- Term of office of the Committee is one year.
- **The functions of the Estimates Committee are:**
 - (a) to report what economies, improvements in organisation, efficiency or administrative reform, consistent with the policy underlying the estimates may be effected;
 - (b) to suggest alternative policies in order to bring about efficiency and economy in administration;
 - (c) to examine whether the money is well laid out within the limits of the policy implied in the estimates;
 - (d) to suggest the form in which the estimates shall be presented to Parliament.

Cut Motion:

- A veto power given to the members of the Lok Sabha to oppose a demand in the financial bill discussed by the government.
- There are Three types of Cut Motions:
 - 1) **Disapproval or Policy Cut:** The amount of the demand be reduced by Re. 1.
 - 2) **Economy Cut:** the amount of the demand be reduced by a specified amount to affect economy in the expenditure.
 - 3) **Token Cut:** The amount of the demand be reduced by Re. 100.

The bills are forwarded to the Rajya Sabha for comment.

Rajya Sabha is bounded to return the bill within 14 days.

The Lok Sabha, however, is not obligated to accept the comments and the Rajya Sabha cannot delay passage of these bills.

Important Facts related to Budget:

- The first Union Budget of Independent India was presented by the first Finance Minister of Independent India, **Sir R.K. Shanmugham Chetty**, on November 26, 1947.
- **Indira Gandhi**, the then prime minister who also held the finance portfolio, she became the first woman finance minister of India to present a Budget in Parliament.
- In 2001, **Yashwant Sinha**, broke the colonial practice of announcing the Union Budget at 5 in the evening. Instead, he delivered his Budget speech at 11 am on the last working day of February.
- Former prime minister of India **Morarji Desai**, who presented 10 Union Budgets in his role as finance minister, is credited with presenting the highest

number of Union Budgets in the history of Independent India.

- The Budget presented by Finance Minister **Arun Jaitley** for the financial year 2017-18 was unprecedented in that, for the first time ever, a Railway Budget was not presented separately. This practice was discontinued and both Union Budget and Railway Budget were merged and presented together.

ARTICLES RELATED TO BILLS

- Article 107 : Provisions as to introduction & passing of Bills
- Article 108 : Joint sitting of both Houses in certain cases
- Article 109 : Special procedure in respect of Money Bills
- Article 110 : Definition of "Money Bills"
- Article 111 : Assent to Bills
- Article 112 : Annual financial statement
- Article 113 : Procedure in Parliament with respect to estimates
- Article 114 : Appropriation Bills
- Article 115 : Supplementary, additional or excess grants
- Article 116 : Votes on account, votes of credit & exceptional grants
- Article 117 : Special provisions as to financial Bills
- Article 118 : Rules of procedure
- Article 119 : Regulation by law of procedure in Parliament in relation to financial business
- Article 120 : Language to be used in Parliament
- Article 121 : Restriction on discussion in Parliament
- Article 122 : Courts not inquire into proceedings of Parliament

Modern History Capsule For SSC & Railway Exams 2019

The Advent of the Europeans

Portuguese

1. Discovery of the New Sea Route "the Cape route" was discovered from Europe to India by Vasco da Gama. He reached the port of Calicut on the May 17, 1498, & was received by the Hindu ruler of Calicut (known by the title of Zamorin). This led to the establishment of trading stations at Calicut, Cochin & Cannanore. Cochin was the early capital of the Portuguese in India. Later Goa replaced it.
2. Alfonso de Albuquerque arrived in India in 1503 as the governor of the Portuguese in India in 1509 (The first governor being Francisco de Almeida between 1503-09). He captured Goa from the ruler of Bijapur in 1510.

Other Governors

- Nino da Cunha (1529-38)— Transferred his capital from Cochin to Goa (1530) & acquired Diu & Bassein (1534) from Bahadur Shah of Gujarat.
- Martin Alfonso de Souza (1542-45) —The famous Jesuit saint Francisco Xavier arrive in India with him.
- The Portuguese rule began to decline afterwards & in the end they left only with GOA, DAMAN & DIU which they retained till 1961.

English

Before the East India Company established trade in the India,

1. John Mildenhall a merchant adventurer was the first Englishman who arrived in India in 1599 by the land route, for the purpose of trade with Indian merchants.
2. Popularly known as the 'English East India Company'. It was formed by a group of merchants known as the "Merchant Adventures" in 1599 & in 1600 the company was given rights to trade in the entire east by QUEEN ELIZABETH I.
3. Following the decision of the East India Company to open a factory at Surat (1608). Captain Hawkins arrived at Jahangir's court (1609) to seek permission. A farman was issued by Jahangir permitting the English to build a factory at Surat (1615).
4. Sir Thomas Roe came to India as ambassador of James I to Jahangir's court in 1615 to obtain the permission to trade & establish factories in different parts of the empire.

French

1. The French East India Company was formed by Colbert in 1664.
2. The first French factory was established at Surat by Francois Caron in 1667. A factory at Masulipatam was set up in 1669.
3. The French power in India was revived under Lenoir & Dumas (governors) between 1720 & 1742. They occupied Mahe in the Malabar, Yanam in Coromandal & Karikal in Tamil Nadu (1739).
4. The arrival of Dupleix as French governor in India in 1742 saw the beginning of Anglo-French conflict (Carnatic wars) resulting in their final defeat in India.

Establishment of Factories by EAST INDIA COMPANY

- The East India Company acquired Bombay from Charles II on lease. Gerald Aungier was its first governor from 1669
- to 1677. The first factory was built at Surat in (1615). Later, Surat was replaced by Bombay as the headquarters of the Company on the west coast in 1687.
- In 1639 Francis Day obtained the site of Madras from the Raja of Chandragiri with permission to build a fortified factory, which was named Fort St. George. Madras soon replaced Masulipatam as the headquarters of the English on the Coromandal coast.
- In 1690 Job Charnock established a factory at Sutanuti & the zamindari of the three villages of Sutanuti, Kalikata and Govindpur was acquired by the British (1698). These villages later grew into the city of Calcutta. The factory at Sutanuti was fortified in 1696 & this new fortified settlement was named fort William' in 1700.
- In 1694, the British Parliament passed a resolution giving equal rights to all Englishmen to trade in the East. A new rival company, known as the 'English Company of Merchants Trading to the East Indies' (1698) was formed.
- The final amalgamation of the company came in 1708 under the title of 'The United Company of Merchants of England Trading to the East Indies'. This new company continued its existence till 1858.

IMPORTANT BATTLES

The First Anglo-Mysore War (1767-69)

A tripartite alliance was formed against Hyder ali by the British, the Nizam & the Marathas. The war ended with the defeat of British. The panic-stricken Madras

government concluded the humiliating Treaty of Madras in 1769.

Treaty of Madras

It was signed by Hyder & the allies consisting of the Company, the Raja of Tanjore, & the Malabar ruler.

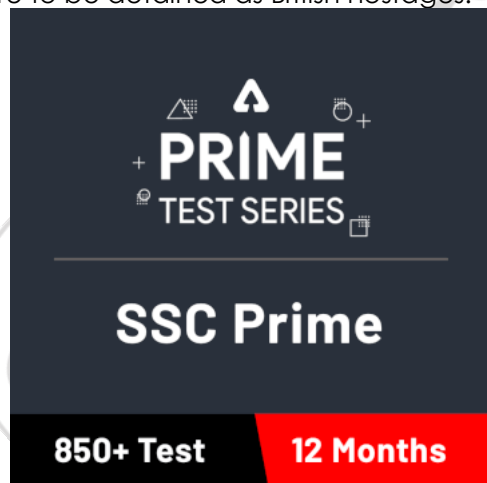
The Second Anglo-Mysore War (1780-1784)

- Haider Ali arranged a joint front with the Nizam & the Marathas against the common enemy -the English East India Company. The war lasted from 1780-1784. But he died in 1782 & was succeeded by his son Tipu Sultan.
- Tipu continued the war for another year but absolute success eluded both the sides. Tired of war the two sides concluded peace **Treaty of Mangalore**. By this Treaty it was decided that English would return Srirangapatnam to Tipu & Tipu would handover Fort of Badnur to English.

Treaty of Seringapatam

It was signed by Tipu on the one hand & the English & their allies (Nizam & the Peshwa) on the other. The Treaty stipulated that:

- The earlier treaties between the English & the rulers of Mysore stood confirmed.
- Tipu was to cede half his territories where where to be shared among the three allies.
- Tipu was also to order the release of all prisoners of war.
- Pending fulfilment of these terms two of his sons were to be detained as British hostages.



The Fourth Anglo-Mysore War (1799)

- With his defeat in the third Anglo-Mysore war, Tipu was burning with revenge. He wanted to get back his territory & to achieve that objective he carried on negotiations with the French & Zaman Shah of Kabul.
- Tipu wanted his allies to expel the English. Lord Wellesley after making Subsidiary Alliance with the Nizam asked Tipu Sultan to accept the same but

he refused. Mysore was attacked from two sides. The main army under General Harris supported by Nizam's subsidiary force under Arthur Wellesley attacked Mysore from the east while another army advanced from Bombay.

Tipu was at first defeated by the Bombay army & was later on defeated by the General Harris at Mallavalli. Tipu died fighting bravely in 1799.

First Anglo Maratha War (1775-82)

The primary cause of the first Maratha war was the interference of the English government at Bombay in the internal affairs of the Marathas.

- Peshwa Madhav Rao died in 1772 & was succeeded by his younger brother Narain Rao. His uncle Raghunath rao wanted to become the Peshwa & got him murdered. The Maratha chiefs took up the cause of Madhav Rao Narain the son of Narain Rao. Ragobha approached British for help & signed the treaty of Surat hoping to gain the coveted Gaddi with the help of English subsidiary troops.
- By this treaty he also promised to cede Salsette & Bassein & refrain from entering into alliance with the enemies of the company.
- In the war that followed nobody gained any success & two parties realized the futility of the struggle by concluding the Treaty of Salbai (1782).
- By the Treaty of Salbai, status quo was maintained which gave the British 20 years of peace with the Marathas. The treaty also enabled the British to exert pressure on Mysore with the help of the Marathas in recovering their territories from Haider Ali.

Second Anglo- Maratha War (1803-1806)

- The second Maratha war was fought at the time of Lord Wellesley who wanted the Marathas to accept his Subsidiary Alliance system.
- The Marathas refused to accept it but were tricked by Wellesley due to their own internal differences.
- The Treaty of Bassein made conflict with the Marathas inevitable. The main provisions of the treaty were the recognition of Peshwa's claim in Poona acceptance of Subsidiary Alliance by Baji Rao II & relinquishing of all rights of Surat by Baji Rao to the British.

For Marathas Treaty of Bassein was loss of national honor. Holkar & Scindia stopped fighting with each other. Scindia & Bhonsle combined but Holkar & Gaikwad remained aloof. Scindia & Bhonsle were asked by the English to withdraw their troops to the north of the Narmada River but they refused & it led to war. Both Scindia & Peshwa had accepted the sovereignty of the English. British turned their attention

towards Holkar but Yashwant Rao Holkar proved more than a match for the British. Wellesley was recalled from India & the Company made peace with the Holkar in January 1806 by the Treaty of Rajghat giving back to the latter the greater part of the territories.

Third Anglo-Maratha War (1817-1818)

- Maratha made a desperate last attempt to regain their independence & prestige in 1817.
- This led in organizing a united front of the Maratha Chiefs & was taken over by the Peshwa who was uneasy under the rigid control exercised by the British Resident. However once again the Marathas failed to evolve any plan of action.
- The Peshwa attacked the British Residency at Poona in 1817, Appa Saheb of Nagpur attacked the Residency at Nagpur & Madhav Rao Holkar made preparations for war.
- The Maratha confederacy was altogether destroyed so many territories were taken from its various members that they were rendered powerless to do anything against the British.
- Thus the work was accomplished by Lord Hastings in 1818. Now the British Government became the supreme & paramount authority in India

Siraj-ud-Daula

- Siraj-ud Daula came to power in 1756. Calcutta was renamed Alinagar after its capture by Siraj-ud-Daula.
- He tried to control the activities of East India Company.
- He wrote letters to the British governor of Calcutta to demolish additional fortifications & also to stop unlawful activities against him.
- The British refused to comply with his orders & he seized the English factory at Kasimbazar & then Calcutta.
- In 1757, his men were attacked by English army led by Robert Clive. This forced the nawab to come to an understanding & establish peace with the English.

Treaty of Alinagar (1757)

The treaty comprised:

- A list of demands made by the Company.
- An agreement affirming to return to status quo.
- A number of Farmans & dastaks issued by the nawab.
- As long as nawab shall observe his agreement, English will continue to support him.
- All the trade privileges held earlier by the Company stood confirmed. Additionally the English were authorized to fortify Calcutta against possible French attack & issue their own coins.

Battle of Plassey (23 June 1757)

The treaty was violated by conquest of Chandannagore by the British in 1757. Siraj ud – Dhaula protested by offering protection to the French. The British decided to remove him through conspiracy. The battle of Plassey took place on June 23, 1757. This battle saw the treachery of Mir Jafar & Rai Durlabh, bravery of small force & desertation of Nawab's army. Siraj-ud – Dhaula was captured & executed by son of Mir Jafar.

Mir Jafar (1757-60)

Mir Jafar granted the right to free trade in Bengal & Bihar & Orissa & zamindari of the 24 parganas to the British besides paying them a sum of Rs 17.7 million as compensation. His period saw the beginning of the drain of wealth from India to Britain. He tried to replace the English with the Dutch but the Dutch were defeated by the English at Bedara in 1759.

Mir Qasim (1760-63)

Mir Qasim granted the zamindari of Burdwan, Midnapore & Chittagong to the British officials. He transferred his capital from Murshidabad to Mongher. He stopped the misuse of the dastaks or free passes allowed to the company & abolished all duties on internal trade against British.

Battle of Buxar

Mir Qasim fought against the British along with three allies – Shuja-ud-Daula of Awadh & Shah Alam II. This battle led to their defeat by the British forces under Major Hector Munro.

The Revolt of 1857

The Revolt of 1857 is an important landmark in the history of India. As per the British historians it was the “Sepoy Mutiny”, it was the “First war of independence”.

Immediate cause: The introduction of Enfield greased rifles whose cartridges were said to have a greased cover made of beef & pork sparked off the revolt. It agitated both Hindu & Muslim soldiers & resulted in immediate launch of movement.

The course of events

- On March 29, 1857, an Indian sepoy of 34 Native Infantry, Mangal Pandey, killed two British officers- Hugeson & Baugh-on parade at Barrackpore (near Calcutta).
- The mutiny really started at Merrut on 10th May 1857. The 3rd Native Infantry revolted. The occasion was the punishment of some sepoys for their refusal to use the greased cartridges. The

soldiers alongwith other groups of civilians, went on a rampage shouting 'Maro Firangi ko'. They broke open jails, murdered Europeans, burnt their houses & marched to Delhi after sunset.

- The appearance of the marching soldiers next morning (i.e. 11th May) in Delhi was a signal to the local soldiers, who in turn revolted, seized the city & proclaimed the 82-year old Bahadur Shah 'Zafar' , as Shahenshah-i-Hindustan (i.e. Emperor of India).
- The British allies during the revolt were Sindhia, the Nizam of Hyderabad & the Begum of Bhopal.

LEADERS OF REVOLT OF 1857 IN INDIA

Mangal Pandey--Mangal Pandey joined the sepoy force of the British East India Company in the year 1849 at the age of 22. Pandey was part of the 34th Bengal Native Infantry & is primarily known for his involvement in an attack on his senior British officers on 29th March 1857 at Barrackpore. This incident marked an opening stage of Sepoy Mutiny of 1857 or the First War of Indian Independence.

Nana Sahib--At Kanpur, the revolt was led by Nana Sahib, the adopted son of exiled Maratha Peshwa Baji Rao II.

Rani Lakshmibai--Rani Lakshmibai (Manikarnika) was married to Raja Gangadhar Rao Newalkar, the Maharaja of Jhansi in 1842, & became the queen of Jhansi. After their marriage, She gave birth to a son Damodar Rao in 1851.

Tatya Tope--Tatya Tope was Nana Sahib's close associate & general. During the Siege of Cawnpore in 1857, Nana Sahib's forces attacked the British entrenchment at Kanpur in June 1857.

Veer Kunwar Singh--Veer Kunwar Singh, the king of Jagdispur, currently a part of Bhojpur district, Bihar, was one of the leaders of the Indian revolt of 1857.

Shah Mal--Shah Mal lived in a large village in pargana Barout in Uttar Pradesh. He mobilised the headmen & cultivators of chaurasee des, moving at night from village to village, urging people to rebel against the British.

Maulvi Ahmadullah Shah--Maulvi Ahmadullah Shah was one of the many maulvis who played an important part in the revolt of 1857. Educated in Hyderabad, he became a preacher when young. In 1856, he was seen moving from village to village preaching jihad (religious war) against the British & urging people to rebel. When he reached Lucknow in 1856, he was stopped by the police from preaching

in the city. Subsequently, in 1857, he was jailed in Faizabad.

Delhi--Mughal Emperor, Bahadur Shah, but real command lay with Bakht Khan (was from the Bareilly unit of the army).

Kanpur--Nana Sahib (from Kanpur, along with Tantia Tope & Azimullah)

Lucknow--Begum Hazrat Mahal of Awadh (declared her son as the Nawab of Awadh).

Bareilly--Khan Bahadur

Bihar (Arrah)--Kunwar Singh, Zamindar of Jagdishpur.

Jhansi - Rani Lakshmi Bai

Allahabad - Liaquat ali

Important Governor Generals of India

Robert Clive (1757-60 & 1765-67):-

1. Governor of Bengal during this period.
2. Started dual Government in Bengal in 1765.
3. He was a British officer who established the military & political supremacy of the East India Company in Bengal.
4. The foundations of the British empire in India were, it is said, laid by Robert Clive, known to his admirers as the "conqueror of India".
5. Clive defeated the Nawab of Bengal Shiraj-ud-daula in the famous Battle of Plassey in 1757.
6. Clive first arrived in India in 1743 as a civil servant of the East India Company; he later transferred to the military service of the Company & returned to England in 1753.
7. On 22 November 1774 Clive committed suicide, aged forty-nine, at his Berkeley Square home in London.

Warren Hastings (1772-74)

1. He Abolished Dual Government started by Robert Clive in 1772.
2. Introduced quintessential settlement of land revenue in 1772.
3. Foundation of Asiatic Society of Bengal with the help of William Jones in 1784.
4. After his return to England in 1785, Impeachment proceeding were initiated against him in the house of Lord.
5. The first Governor-General of Bengal was Warren Hastings.
6. Rohila War in 1774, First Anglo-Maratha War (1776-82) & Second Anglo-Mysore War from 1780-84.

Lord Cornwallis (1786-93)

1. First Person to codify Laws in 1793. The code separated the revenue administration from the administration of Justice. Created the post of District Judge.
2. Introduced the Permanent settlement in 1793.

3. Cornwallis called "Father of Civil Service in India".
4. He also led the British forces in the third Anglo-Mysore war & defeated the Great Tipu Sultan, ruler of Mysore.
5. In 1793, He returned to England to receive the title of the Marques. & was granted seat in the Privy Council & died in 1805.

Lord Wellesley (1793-1798)

1. Described himself as "Bengal Tiger"
2. Introduced the system of Subsidiary Alliance.
3. Madras Presidency was formed during his period.
4. Signed the Treaty of Bassien & fought Second Anglo-Maratha war.

Lord Hastings (1813-1823)

1. Introduction of Ryotwari settlement in Madras Presidency by Governor Thomas Munro in 1820.
2. Adopted the Policy of intervention & War.
3. Mahalwari (Village Community) system of Land Revenue was made in North West Province by James Thomson.

Lord William Bentick (1828-1835)

1. First Governor General of India by Government of India Act 1833.
2. Most Liberal & Enlightened Governor General of India & regarded as the "Father of Modern Western Education in India".
3. Banned practice of Sati in 1829. & banned female infanticide.
4. He made the English the court Language in higher court but Persian continued in Lower court.
5. Abolished Court of Appeals & Circuit set up by the Cornwallis.
6. Sir Charles Metcalfe (1835-36) called Liberator of Press.

Lord Dalhousie (1849-1856)

1. Lord Dalhousie introduced the Policy of Doctrine of Lapse captured Satara in 1848, Jaitpur & Sambhalpur in 1849. Baghat in 1850, Udaipur in 1852, Jhansi in 1853, & Nagpur in 1854.
2. Introduced Wood's Dispatch known as Magna Carta of English Education in India prepared by Charles Wood. It suggested a scheme of education from Primary to University level.
3. He laid the first Railway Line in 1853 from Bombay to Thane & second from Calcutta to Raniganj.
4. Gave a great impetus to Post & Telegraph. Telegraph lines were first laid from Calcutta to Agra.
5. Hindu Marriage Act passed in 1856.
6. A Post office Act was passed in 1854. Postage stamp were issued for the first time.
7. He was the youngest Governor General of India. He assumed charge at age of 36.

8. An Engineering Collage at Roorkee was established.
9. A separate Public Works Department was setup for the first time, Started work on Grand Trunk Road & developed the Harbours at Karachi, Bombay, & Calcutta.

Lord Canning (1856-62)

He was the first last Governor General of India & First Viceroy of India.

1. Revolt of 1857.
2. Queen Victoria's Proclamation & passing the Indian council act of 1858.
3. Doctrine of Lapse which was started by Lord Dalhousie was withdrawn in 1859.
4. Foundation of the Universities in Calcutta, Bombay, & Madras in 1857.
5. Indigo Revolt in Bengal in 1859-60.
6. Bahadur Shah was sent to Rangoon.
7. IPC & Cr.PC was enacted.
8. Income Tax was introduced for the first time in 1858.
9. Indian High Court act 1861 was enacted.

MODERN HISTORY AFTER 1885

The Indian National Congress

- Formed in 1885 by A.O.Hume, an Englishman & a retired civil servant.
- First session in Bombay under W.C.Banerjee in 1885 (72 delegates attended it).
- In the first two decades (1885 – 1905), quite moderate in its approach.
- But the repressive measures of the British gave rise to extremists within Congress like Bipin Chandra Pal, Bal Gangadhar Tilak & Lala Lajpat Rai (Lal, Bal, Pal).

Partition of Bengal:

- By Lord Curzon on Oct 16, 1905, through a royal Proclamation, reducing the old province of Bengal in size by creating East Bengal & Assam out of rest of Bengal.
- The objective was to set up a communal gulf between Hindus & Muslims.

Swadeshi Movement (1905):

- Lal, Bal, Pal, & Aurobindo Ghosh played the important role.
- INC took the Swadeshi call first at the Banaras Session, 1905 presided over by G.K.Gokhale. Bonfires of foreign goods were conducted at various places.

Formation of Muslim League (1906)

In December, 1906, All India Muslim League was set up under the leadership of Aga Khan, Nawab Salimullah of Dacca & Nawab Mohsin-ul-Mulk at

Dacca. The League supported the partition of Bengal, opposed the Swadeshi movement & demanded special safeguards for its community & a separate electorate of Muslims.

Calcutta Session of INC (1906)

In Dec. 1906 at Calcutta, the INC under the leadership of Dada Bhai Naoroji adopted 'Swaraj' as the goal of Indian people. Naoroji in his presidential address declared that the goal of the INC was 'self government of Swaraj like that of United Kingdom'.

Surat Split (1907)

The INC split into the two groups i.e. the extremists & the moderates at the Surat session in 1907. The extremists were led by Tilak, Lajpat Rai & Bipin Chandra Pal while the moderates were led by G.K. Gokhale.

Alipore Bomb Case (1908)

In 1908 a revolutionary conspiracy was intrigued to kill the Chief Presidency Magistrate D.H. Kingford of Muzaffarpur. The task was entrusted to Khudiram Bose & Prafulla Chaki. They threw the bombs on a vehicle coming out of the magistrate's home on April 30, 1908.

Morley-Minto Reforms (1909)


Morley-Minto Reforms were introduced in 1909 during the period when Lord Minto was the Viceroy of India while Morley was the secretary of the state. The reforms laid the foundation of institutionalized communalism as per the policy of divide & rule by introducing the separate electorates for Muslims. As per the provisions of the reform Muslims could only vote for Muslim candidates.

Arrival of Lord Hardinge (1910)


From 1910 to 1916, Lord Hardinge served as India's Viceroy. The important event during his tenure was the Delhi Durbar of 1911.

Delhi Durbar of 1911

In 1910, there was a succession in England where King George V ascended the throne. In 1911 he paid a visit to India. Darbar was held to commemorate the coronation of King George V & Queen Mary as Emperor & Empress of India. In this Darbar, the King declared that Capital of India will be transferred from Calcutta to Delhi. In the same Darbar it was also declared the Partition of Bengal is cancelled.



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Delhi conspiracy case 1912

It is said that the Delhi Conspiracy was hatched by Ras Bihari Bose, but was never proved. On 23 December 1912, a Bomb was thrown at the Viceroy Lord Hardinge when his procession was moving from Chandni Chowk. The Viceroy wounded in the attempt, but his Mahavat (driver & keeper of an elephant) was killed.

Ghadar Party (1913):

- Formed by Lala Hardayal, Taraknath Das & Sohan Singh Bhakna. HQ was at San Francisco.

Home Rule Movement (1915-16)

B.G Tilak was released from the Mandalay jail in the year 1914. In 1915 he reentered INC. B.G. Tilak founded Indian Home Rule League at Pune on 28 April, 1916. Annie Besant, inspired by the Irish rebellion, started Home Rule Movement in India in Sep., 1916. She started two newspapers i.e. Young India & Commonwealth. The leagues advocated passive resistance & civil disobedience.

Arrival of Lord Chelmsford 1916

On April 4, 1916, Lord Chelmsford took over as next Viceroy of India.

Lucknow Pact-Congress-League Pact (1916)

An important step forward in achieving Hindu-Muslim unity was the Lucknow Pact (1916). Anti-British feelings were generated among the Muslims following a war between Britain & Turkey which opened way for Congress & Muslim League unity. Both the Congress & the Muslim League held session at Lucknow in 1916 & concluded the famous Lucknow pact. The congress accepted the separate electorate & both organizations jointly demanded 'dominion status' for the country.

Montagu Declaration (August Declaration of 1917)

Montague made the landmark statement in the context of self rule in India in 1917. He said that the

control over the Indian government would be transferred gradually to the Indian people. This was the result of Hindu-Muslim unity exhibited in Lucknow pact.

The Champaran Satyagraha of 1917 was Mahatma Gandhi's first Satyagraha. Champaran & Kheda Satyagraha were the events which later put Gandhi on the front seat of Indian National Revolution & made Satyagraha a powerful tool.

Kheda Satyagraha 1918

In 1918, Gujarat as a whole suffered a severe epidemic of Plague & in Kheda alone around 17000 people lost their lives. Further, cholera also broke out locally. This was the immediate reason of the revolt. The revolt was against the taxes. The government said that if the taxes are not paid, the property would be seized. This revolt gave India a robust leader in Sardar Vallabhbhai Patel. Sardar Vallabhbhai Patel & his colleagues organized this major tax revolt, which was able to mobilize all the castes & creeds of the region.

Rowlatt Act (March 18, 1919)

- This gave unbridled powers to the govt. to arrest & imprison suspects without trial for two years maximum.

Jallianwala Bagh Massacre (April 13, 1919):

- People were agitated over the arrest of Dr. Kitchlu & Dr. Satyapal on April 9, 1919. General Dyer fires at people who assembled in the Jallianwala Bagh, Amritsar on 13th April 1919.
- As a result hundreds of men, women & children were killed & thousands injured.
- Rabindranath Tagore returned his Knighthood (title) in protest.
- Sir Shankaran Nair resigned from Viceroy's Executive Council after this.
- Hunter Commission was appointed to enquire into it.
- On March 13, 1940, Sardar Udham Singh killed Michael O'Dwyer when the later was addressing a meeting in Caxton Hall, London.

Hunter Committee Report

The Jallianwala Bagh massacre was followed by establishment of a non-official enquiry committee the Government established a committee headed by Lord Hunter a Senator of the "College of justice of Scotland".

Khilafat Movement (1919-20):

- Muslims were agitated by the treatment done with Turkey by the British in the treaty that followed the First World War.
- Two brothers, Mohd.Ali & Shaukat Ali started this movement.

Non cooperation movement (1920-22)

The Non cooperation was the first mass movement launched under the leadership of Gandhi.

The program of non-cooperation included:

1. Surrender of titles
2. Boycott of government affiliated educational institutions
3. Boycott of courts of law
4. Boycott of foreign cloth
5. Nonpayment of taxes

Chaura Chouri incidence (1922)

On 5th February 1922, the Non Cooperation Movement was called off by Gandhi because of an unfortunate incidence at Chauri Chaura in Gorakhpur district of Uttar Pradesh. In this incidence the crowd participating in the Non Cooperation & Khilafat procession indulged into the violence with the police. As a result the crowd burnt a Police station & in the incidence 22 policemen were killed.

The Sawraj party (1923)

During this time a new political strategy; to carry forward the struggle against the colonial rule; was advocated by C.R. Das & Motilal Nehru. C.R. Das & Motilal Nehru put forward the changed strategy in Gaya session (1922) of the Congress. There were leaders in Congress like Vallabhbhai Patel, Rajendra Prasad & C.Rajgopalachari who opposed these changes of council entry. C.R. Das & Motilal Nehru resigned from the Congress & formed the Swaraj Party.

Simon Commission (1927)

- Constituted under John Simon, to review the political situation in India & to introduce further reforms & extension of parliamentary democracy.
- Indian leaders opposed the commission, as there were no Indians in it.
- At Lahore, Lala Lajpat Rai was severely beaten in a lathi-charge. He died in 1928.
- It had 7 member & no indian is there.

Nehru's Report (1928)

Lord Birkenhead, the Conservative Secretary of the State challenged Indians that they were not capable to formulate a concrete scheme of the constitutional reforms which had the support of wide section of political parties. He was of the view that a scheme of

constitutional reform made by one political party in India would be opposed by the others & Indian political parties lacked the capabilities to form a consensus. To meet this challenge All Parties Conferences were held in 1928. A scheme was finalized which is popularly called "Nehru Report" as Motilal Nehru was its chief architect.

14 Points of Jinnah (March 9, 1929)

Jinnah, the leader of Muslim League, did not accept the Nehru Report. Jinnah thereafter drew up a list of demands, which was called '14 points of Jinnah'.

Lahore Session (1929)

At its annual session held in Lahore in Dec. 1929, under the presidency of Jawaharlal Nehru, the Indian National Congress passed a resolution declaring 'Purna Swaraj' (Complete Independence) to be the goal of the national movement. On Dec. 31, 1929, the newly adopted tricolor flag was unfurled & Jan 26 fixed as the Independence Day which was to be celebrated every year, pleading to the people not to submit to British rule any longer.

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BILINGUAL

Civil Disobedience Movement

Phase "I" of Civil Disobedience Movement

In 1929 at Lahore Session, Congress made the "Purna Swaraj" or the complete independence as the aim of the Congress. On 31st January 1930, Gandhi gave his ultimatum to Lord Irwin with his 11 point demand. The Gandhi asked Irwin either to accept the 11 point demands else the Congress will launch Civil Disobedience. The demands were ignored by the British government. Thus Gandhi launched the Civil Disobedience Movement with the Dandi march. It was from Sabarmati to Dandi. Gandhiji along with his 78 followers broke the Salt Act.

First Round Table conference (1930)

- It was the first conference arranged between the British & Indians as equals. It was held on Nov.12, 1930 in London to discuss Simon commission.
- Boycotted by INC, Muslim League, Hindu Mahasabha, Liberals & some others were there.

Gandhi Irwin Pact (1931)

- The two (government represented by Irwin & INC by Gandhiji) signed a pact on March 5, 1931.
- In this the INC called off the civil disobedience movement & agreed to join the second round table conference.
- The government on its part released the political prisoners & conceded the right to make salt for consumption for villages along the coast.

Second Round Table Conference(1931)

- Gandhiji represented the INC & went to London to meet British Prime Minister Ramsay Macdonald.
- However, the session was soon deadlocked on the minorities issue & this time separate electorates was demanded not only by Muslims but also by Depressed Classes, Indian Christians & Anglo – Indians.

Phase "II" of CDM

After the failure of Second Round Table Conference, the working committee of the Congress resumed Civil Disobedience in.

The Communal Award (August 16, 1932)

- Announced by Ramsay McDonald. It showed divide & rule policy of the British.
- Envisaged representation of Muslims, Sikhs, Indian Christians, Anglo Indians, women & even Backward classes.
- Gandhiji, who was in Yeravada jail at that time, started a fast unto death against it.

Poona Pact (September 25, 1932):

- After the announcement of communal award & subsequent fast of Gandhiji, mass meeting took place almost everywhere.
- Political leaders like Madan Mohan Malviya, B.R.Ambedkar & M.C. Rajah became active.
- Eventually Poona pact was reached & Gandhiji broke his fast on the sixth day (Sept 25, 1932).
- In this, the idea of separate electorate for the depressed classes was abandoned, but seats reserved to them in the provincial legislature were increased.

Third Round Table Conference (1932)

- Proved fruitless as most of the national leaders were in prison. The discussions led to the passing of the Government of India Act, 1935.

The Government of India Act, 1935

The Simon Commission report submitted in 1930 formed the basis for the Government of India Act, 1935. The new Government of India Act received the royal assent on Aug. 4, 1935. The continued & extended all the existing features of earlier constitutional reforms. But in addition there were certain new principle introduced. It provided for a federal type of government. Thus, the act:

1. Introduced provincial autonomy
2. Abolished dyarchy in provinces

Pakistan Resolution/Lahore Resolution (March 24, 1940)

It was 1930 that Iqbal suggested the union of the Frontier Province, Baluchistan, Sindh & Kashmir as Muslim state within the federations. The idealist Chaudhry Rehmat Ali developed this conception at Cambridge, where he inspired a group of young Muslims & invented the term 'Pakistan' (later 'Pakistan') in 1935. The ideology of Iqbal, the vision of Rehmat Ali, & the fears of Muslims were thus united by the practical genius of Jinnah to blind Muslim together. The Lahore session of the Muslim League, held on March 24, 1940, passed Pakistan Resolution & rejected the **Federal scheme** an envisaged in the government of India Act, 1935.

The August Offer (1940)

In order to win the public opinion in India, Linlithgow put up an offer to get the support of the nationalist in the World War "II".

Main Features-

- A promise of Dominion Status in an unspecified future
- A post war body to be created to enact a constitution, however this was to happen only after the approval from the British Parliament
- Immediate expansion in the Viceroy's executive council.
- Formation of a war advisory council.

Individual Satyagraha

The August offer shocked nationalists, & the Congress launched the individual Satyagraha. Vinobha Bhave was the first Satyagrahi while Nehru was second.

The Cripps Mission – 1942

- In Dec. 1941, Japan entered the World War – II & advanced towards Indian borders. By March 7, 1942, Rangoon fell & Japan occupied the entire S E Asia.
- The British govt. with a view to getting cooperation from Indians sent Sir Stafford Cripps, leader of the

House of Commons to settle terms with the Indian leaders.

- He offered a draft which proposed dominion status to be granted after the war
- Rejected by the Congress as it didn't want to rely upon future promises.
- Gandhiji termed it as a post dated cheque in a crashing bank.

Quit India Movement

The causes for the launch of Quit India Movement were:

- The failure of the Cripp's Mission was an eye opener for the nationalist.
- The news of Allied reverses in World War & British withdrawal from South-East Asia & Burma leaving local people at the mercy of Japanese.

Course of Events

- Quit India resolution was passed on 8th August 1942 at Bombay.
- The Congress envisaged a "mass struggle on the non-violent lines on the widest possible scale.
- It was made clear that if Congress leadership gets removed by arrest, "every Indian who desires freedom & strives for it must be his own guide".
- Gandhi & all the leaders of the Congress working committee were arrested on the early hours of August 9, 1942.
- There was a three month strike in Ahmedabad, the Stalinguard of India
- Usha Metha ran an illegal radio station
- Rajgopalacharya & Communists opposed the Quit India Movement
- The three parallel governments were formed at: 1. Ballia under Chittu Pandey 2. Tamkul- Jatia Sarkar of Satish Samant 3. Satara- Prati Sarkar under Nana Patil

Gandhiji's Fast (Feb. 10 – March 7, 1943)

Gandhiji undertook a 21-day fast in jail. His condition deteriorated after 13 days & all hopes of his surviving were given up. However, as a result his moral strength & spiritual stamina, he survived & completed the 21-day fast. This was his answer to the government which had been constantly exhorting him to condemn the violence of the people in the Quit India Movement.

C.R. Formula (1944)

In 1944, Chakravarti Rajagopalachari (C.R.) proposed to appoint a commission to separate the district in North-West & East where Muslims were in majority. In such areas, a voting to be held on the basis of adult suffrage to decide the issue of separation. They would be given freedom in case they favoured a sovereign state. In case of acceptance of partition,

agreement to be made jointly for safeguarding defence, commerce, communications etc.

Muslim League was to endorse Congress demand for independence & cooperate in formation of provisional government. Jinnah objected, as he wanted Congress to accept two-nation theory & wanted only Muslims of the North-West & East of India to vote. Hindu Leaders led by V.D. Savarkar condemned the plan.

Wavell Plan & Shimla Conference (June 14 – July 14, 1945)

After consultations with the British Government on the Indian problem, Lord Wavell, the Viceroy of India, issued a statement known as Wavell Plan. The Plan, which chiefly concerned Viceroy's Executive Council, proposed certain changes in the structure of the council. One of the main proposals was that the Executive Council would be constituted giving a balanced representation to main communities in it, including equal representation to Muslims & Hindus. Soon after the Wavell Plan was issued the members of the Congress Working Committee were released from jails. A conference of 22 prominent Indian leaders called at Shimla to consider the Wavell Plan, reached no decision. What scuttled the conference was Mr. Jinnah's unflinching stand that Muslim approved only by the Muslim League should be included in the Executive Council. Communalism thus again became a stumbling block. For the Britishers, however, the dissension between the Congress & the Muslim League was a source of happiness.

The Indian National Army:

- Founded by Rasbehari Bose with Captain Mohan Singh.
- S.C. Bose secretly escaped from India in 1941, & reached Berlin. In July 1943, he joined the INA at Singapore. There, Rasbehari Bose handed over the leadership to him.
- The soldiers were mostly raised from Indian soldiers of the British army who had been taken prisoners by the Japanese after they conquered S.E. Asia.
- Two INA head quarters were Rangoon & Singapore (formed in Singapore).
- INA had three fighting brigades named after Gandhiji, Azad & Nehru. Rani Jhansi Brigade was an exclusive women force.

INA Trials

- The first trial of INA prisoners took place at Red Fort.
- P.K. Sehgal, Shah Nawaz & Gurbaksh Singh Dhillon were made accused.
- The counsels for defense were Bhulabhai Desai, Tej Bhadur Sapru, K.N. Katju, J.L. Nehru & Asaf Ali

- Even though the Court Martial held the INA prisoners guilty, the Government felt it expedient to set them free.
- The question of guilt was not the issue, however it was Britain's right to decide the matter concerning Indians.

The revolt of Royal Indian Navy (RIN)

- In Feb. 1946, Bombay Ratings of HMIS Talwar revolted against British & struck work.
- The racial discrimination & bad food was the immediate cause of the revolt.
- B.C Dutta scrawled Quit India on the ships
- The HMIS Hindustan in Karachi also mutinied.
- By the end of February the strike had spread to naval bases all over the country involving about 20000 ratings.

The Cabinet Mission Plan (1946):

- The struggle for freedom entered a decisive phase in the year 1945-46. The new Labour Party PM. Lord Attlee, made a declaration on March 15, 1946, that British Cabinet Mission (comprising of Lord Pethick Lawrence as Chairman, Sir Stafford Cripps & A.V. Alexander) will visit India.
- The mission held talks with the INC & ML to bring about acceptance of their proposals.
- On May 16, 1946, the mission put towards its proposals. It rejected the demand for separate Pakistan & instead a federal union consisting of British India & the Princely States was suggested.
- Both Congress & Muslims League accepted it.

Direct Action Campaign (Aug. 16, 1946): Provoked by the success of the Congress (in the voting for Constituent Assembly), the Muslim League launched a 'direct action' campaign on Aug. 16, 1946, which resulted in heavy communal riots in the country.

Interim Government (Sept. 2, 1946):

On Sept. 2, 1946, an interim government was formed. Congress members led by Pt. Jawaharlal Nehru joined it but the Muslim League did not as it withdrew its earlier acceptance of the Cabinet Mission Plan.

Formation of Constituent Assembly (Dec. 9, 1946):

This Constituent Assembly met on Dec. 9, 1946, & Dr. Rajendra Prasad was elected its President. The Muslim League did not join the Assembly.

Attlee's Announcement (Feb. 20, 1947): On Feb. 20, 1947, British PM Attlee announced that the British would withdraw from India by June 30, 1948 & that Lord Mountbatten would replace Wavell.

Mountbatten Plan (June 3, 1947):

- On June 3, 1947, Lord Mountbatten put forward his plan which outlined the steps for the solution of India's political problem.
- The outlines of the Plan were:
- India to be divided into India & Pakistan.
- Bengal & Punjab will be partitioned & a referendum in NEFP & Sylhet district of Assam would be held.
- There would be a separate constitutional assembly for Pakistan to frame its constitution.
- The Princely states would enjoy the liberty to join either India or Pakistan or even remain independent.
- Aug.15, 1947 was the date fixed for handing over power to India & Pakistan.
- The British govt. passed the Indian Independence Act of 1947 in July 1947, which contained the major provisions put forward by the Mountbatten plan.

Partition & Independence (Aug 1947): □ All political parties accepted the Mountbatten plan.

- At the time of independence, there were 562 small & big Princely States in India.
- Sardar Vallabh Bhai Patel, the first home minister, used iron hand in this regard.

By August 15, 1947, all the States, with a few exceptions like Kashmir, Hyderabad & Junagarh had signed the Instrument of Accession.

Goa was with the Portuguese & Pondicherry with the French.

Revolutionary Activities:

- In 1908, Khudiram Bose & Prafulla Chaki threw a bomb on the carriage of Kingford, the unpopular judge of Muzaffarpur. Khudiram, Kanhaiyalal Dutt & Satyendranath Bose were hanged. (Alipur Case)
- In 1912, Rasbihari Bose & Sachindra Nath Sanyal threw a bomb & Lord Hardinge at Delhi. (Delhi Conspiracy Case).
- In Oct, 1924, a meeting of revolutionaries from all parts of India was called at Kanpur. They setup Hindustan Republican Association.
- They carried out a dacoity on the Kakori bound train on the Saharanpur-Lucknow railway line on Aug. 9, 1925
- Bhagat Singh, with his colleagues, shot dead Saunders (Asst. S.P. of Lahore, who ordered lathi charge on Lala Lajpat Rai) on Dec.17, 1928
- Then Bhagat Singh & Batukeshwar Dutt threw a bomb in the Central Assembly on Apr 8, 1929. Thus, he, Rajguru & Sukhdev were hanged on March. 23, 1931 at Lahore Jail (Lahore Conspiracy Case).

- In 1929 only Jatin Das died in Lahore jail after 63 days fast to protest against horrible conditions in jail.
- Surya Sen, a revolutionary of Bengal, formed the Indian Republican Army in Bengal. In 1930, he masterminded the raid on Chittagong armoury. He was hanged in 1933.
- In 1931, Chandrashekhar Azad shot himself at Alfred Park in Allahabad.

Important British Viceroy in India

Lord Canning (1856 – 1862):

- The last Governor General & the first Viceroy.
- Mutiny (Revolt of 1857) took place in his time.
- Withdrew Doctrine of Lapse (introduced by Lord Dalhousie).
- The Universities of Calcutta, Bombay & Madras were established in 1857.
- Indian Councils Act was passed in 1861.

Lord Lawrence (1864 – 1869) :

- Telegraphic communication was opened with Europe.
- High Courts were established at Calcutta, Bombay & Madras in 1865.
- Expanded canal works & railways.
- Created the Indian Forest department.

Lord Mayo (1869 – 1872) :

- Started the process of financial decentralization in India.
- Established the Rajkot college at Kathiawar & Mayo College at Ajmer for the Indian princes.
- For the first time in Indian history, a census was held in 1871.
- Organised the Statistical Survey of India.
- Was the only Viceroy to be murdered in office by a Pathan convict in the Andamans in 1872.

Lord Ripon (1880 – 1884) :

- Repeated the Vernacular Press act (1882)
- Passed the local self government act (1882)
- Took steps to improve primary & secondary education (on William Hunter Commission's recommendations).
- I Factory act, 1881, aimed at prohibiting child labour.
- Passed the libel Bill (1883) which enabled Indian district magistrates to try European criminals.

Lord Dufferin (1884 – 1888) : Indian National Congress was formed during his tenure.

Lord Lansdowne (1888 – 1894) :

- II Factory act (1891) passed during his time.

- b) Categorization of Civil Services into Imperial, Provincial & Subordinate.
- c) Indian Council act of 1892 was passed.
- d) Appointment of Durand Commission to define the line between British India & Afghanistan.

Lord Elgin II (1894 – 1899) : Great famine of 1896 – 1897. Lyall Commission was appointed.

Lord Curzon (1899 – 1905) :

- a) Passed the Indian Universities act (1904) in which official control over the Universities was increased.
- b) Partitioned Bengal (October 16, 1905) into two provinces Bengal (proper) & East Bengal & Assam.
- c) Appointed a Police Commission under Sir Andrew Frazer to enquire into the police administration of every province.
- d) The risings of the frontier tribes in 1897 – 98 led him to create the North Western Frontier Province (NWFP).
- e) Passed the Ancient Monuments Protection act (1904), to restore India's cultural heritage. Thus the Archaeological Survey of India was established.
- f) Passed the Indian Coinage & Paper Currency act (1899) & put India on a gold standard.

Lord Minto (1905 – 1910) :

There was great political unrest in India. Various acts were passed to curb the revolutionary activities. Extremists like Lala Laipat Rai & Ajit Singh (in May, 1907) & Bal Gangadhar Tilak (in July, 1908) were sent to Mandalay jail in Burma. The Indian Council act of 1909 or the Morley Minto Reforms was passed.

Lord Hardinge (1910 – 1916) :

- a) Held a durbar in December, 1911 to celebrate the coronation of King George V.
- b) Partition of Bengal was cancelled (1911),
- c) Capital shifted from Calcutta to Delhi (1912).
- a) A bomb was thrown at him; but he escaped unhurt (December 23, 1912).
- d) Gandhiji came back to India from South Africa (1915).
- e) Annie Besant announced the Home Rule Movement.

Lord Chelmsford (1916 – 1921) :

- a) August Declaration of 1917, whereby control over the Indian government would be gradually transferred to the Indian people.
- b) The government of India act in 1919 (Montague Chelmsford reforms) was passed.
- c) Rowlatt act of 1919; Jallianwala Bagh Massacre (April 13, 1919).
- d) Non Cooperation Movement.

- e) An Indian Sir S.P.Sinha was appointed the Governor of Bengal.
- f) A Women's university was founded at Poona in 1916.
- g) Saddler Commission was appointed in 1917 to envisage new educational policy.

Lord Reading (1921 – 1926) :

- a) Rowlatt act of 1919 was repeated along with the Press act of 1910.
- b) Prince of Wales visited India in November, 1921.
- c) Formation of Swaraj Party.
- d) Vishwabharati University started functioning in 1922.
- e) Communist part was founded in 1921 by M.N. Roy.
- f) Kakory Train Robbery on August 9, 1925.
- g) Communal riots of 1923 – 25 in Multan, Amritsar, Delhi, etc. Swami Shraddhanand, a great nationalist & a leader of the Arya Samajists, was murdered in communal orgy.

Lord Irwin (1926 – 1931) :

- a) Simon Commission visited India in 1928.
- b) Congress passed the Indian Resolution in 1929.
- c) Dandi March (March 12, 1930).
- d) Civil Disobedience Movement (1930).
- e) First Round Table Conference held in England in 1930.
- f) Gandhi Irwin Pact (March 5, 1931) was signed &
- g) Civil Disobedience Movement was withdrawn.
- g) Martyrdorm of Jatin Das after 64 days hunger strike (1929).

Lord Willingdon (1931 – 1936) :

- a) Second Round Table conference in London in 1931.
- b) On his return Gandhiji was again arrested & Civil Disobedience Movement was resumed in January, 1932.
- c) Communal Awards (August 16, 1932) assigned seats to different religious communities. Gandhiji went on a epic fast in protest against this division.
- d) Third Round Table conference in 1932.
- e) Poona Pact was signed.
- f) Government of India act (1935) was passed.

Lord Linlithgow (1936 – 1944) :

- a) Government of India act enforced in the provinces.
- b) Congress ministries formed in 8 out of 11 provinces.
- c) Churchill became the British PM in May, 1940. He declared that the Atlantic Charter (issued jointly by the UK & US, stating to give sovereign rights to

those who have been forcibly deprived of them) does not apply to India.

d) Outbreak of World War II in 1939.

Lord Wavell (1944 – 1947) :

- a) Arranged the Shimla Conference on June 25, 1945 with Indian National Congress & Muslim League; failed.
- b) Cabinet Mission Plan (May 16, 1946).
- c) Elections to the constituent assembly were held & an Interim Government was appointed under Nehru.
- d) First meeting of the constituent assembly was held on December 9, 1946.

Lord Mountbatten (March 1947 – August 1947) :

- a) Last Viceroy of British India & the first Governor General of free India.
- b) Partition of India decided by the June 3 Plan.
- c) Indian Independence Act, 1947 passed by the British parliament on July 4, 1947, by which India became independent on August 15, 1947.
- d) Retired in June 1948 & was succeeded by C. Rajagopalachari (the first & the last Indian Governor General of free India).

CONSTITUTIONAL DEVELOPMENTS BY THE BRITISH

Important Acts

The Regulating Act, 1773

- First attempt by the British Parliament to regulate the affairs of the Company.
- Provided for centralization of Administration of Company's territories in India.
- Governor of Bengal became Governor-general for Bengal.
- Governor General & council of 4 members appointed for Bengal.
- Bombay & Madras Presidency subordinated to Bengal presidency.
- Supreme court to be set up at Calcutta.

The Pitts India Act, 1784

- This Act gave the British government the supreme control over Company's affairs & its administration in India.
- Court of directors consisting of 24 members was appointed to look after commercial functions.
- Board of control consisting of 6 parliamentary Commissioners appointed to control civil, military & revenue affairs of India.
- Strength of Governor general-in council reduced to 3.
- Subordinated the Bombay & Madras presidency to Bengal in all questions of war, diplomacy & revenues.

- First effective substitution of Parliamentary Control over East India Company.

The Charter Act of 1833

- End of company's trade monopoly even in tea & with China.
- Company was asked to close its business at the earliest.
- Governor-General of Bengal to be Governor-General of India. (1st Governor-General of India-Lord William Bentinck).
- Govt. of Madras & Bombay deprived of legislative powers.
- A fourth member, law member added to council of Governor-General.
- Government Service was thrown open to the people of India.
- All laws made by Governor General-in-council henceforth to be known as Acts & not regulations.

The Charter Act of 1853

- Extended life of the Company for an unspecified period.
- First time separate legislative machinery consisting of 12 member legislative council was created.
- Law member was made a full member of the Executive Council of the Governor-General
- Recruitment to Civil Services was based on open annual competitive examination. (excluding Indians)

The Govt of India Act, 1858

- Rule of Company in India ended & that of the Crown began.
- System of double Government ended. Court of Directors & Board of Control abolished.
- Secretary of State (a member of the British Cabinet) for India was created. He was assisted by a 15-member council (Indian Council). He was to exercise the powers of the Crown.
- Secretary of State governed India through the Governor-General. Governor-General was to be called the Viceroy & was the direct representative of the Crown in India.
- A unitary & highly centralized administrative structure was created.

The Indian Council Act, 1861

- Policy of Association of Indians in legislation started.
- A fifth member who was to be a jurist, was added to the Viceroy's executive council.
- Viceroy could issue ordinances in case of emergency.

- For legislation, executive Council of Viceroy was enlarged by 6 to 12 members composed of half non-official members. Thus foundations of Indian legislature were laid down.
- Legislative powers of the Presidency Government deprived in 1833 were restored.

Indian Council Act, 1909 (Morley-Minto Act)

- Morley was the secretary of state, while Minto was the Indian Viceroy.
- Additional members in central legislative assembly were increased to 60
- Introduced for the first time indirect elections to the Legislative Councils.
- Separate electorates were introduced for the muslims.
- Non-official seats were to be filled in by elections. They were distributed as follows
 - a) By non-official members of the Provincial Legislative councils.
 - b) By landholders of 6 provinces
 - c) By Muslims of 5 provinces
 - d) Alternately by Muslim landholders of Up/Bengal Chambers of commerce of Calcutta & Bombay.
- Muslim were to be elected by Separate electorates.
- Resolutions could be moved before the budget was taken in its final form.
- Supplementary questions could be asked.

The Govt. of India Act, 1919

- Popularly known as Montague(SoS)-Chelmsford(Viceroy) Reforms.
- The idea of "Responsible Government" was emphasised upon.
- Devolution Rules:
- Subjects of administration were divided into two categories-"Central" & "Provincial".
- Subjects of all India importance (like railways & finance) were brought under the category of Central, while matters relating to the administration of the provinces were classified as provincial.
- Dyarchy system introduced in the Provinces. The Provincial subjects of administration were to be divided into two categories "Transferred" & "Reserved" subjects.
- The transferred subjects were to be administered by the Governor with the aid of Ministers responsible to the Legislative Council. The Governor & his Executive Council were to administer the reserved subjects (Rail, Post, Telegraph, Finance, Law & Order, etc.) without any responsibility to the legislature.
- An office of the High commissioner of India was created in London.
- Indian legislature became "bicameral" for the first time.

- Communal representation extended to Sikhs, Indian christen Anglo-Indians.
- Secretary of State for India now to be paid from British revenue.

GOI Act, 1935:

- Sought to introduce a federation
- Provided for 3-fold division of legislative power, i.e. three lists - Federal, Provincial & Concurrent Lists.
- Residuary powers to be vested with Governor-General
- Diarchy was introduced at the Centre
- Autonomy replaced diarchy at provincial level
- Provided for establishment of a Federal Court

Indian Independence Act, 1947

- This Act did not lay down any provision for the administration of India.
- Partition of India & the establishment of two dominions of India & Pakistan.
- Constituent Assembly of each Dominion would have unlimited powers to frame & adopt any constitution.
- The rule of the crown over Indian states was terminated.
- The office of the Secretary of State for India was to be abolished.

SOCIAL REFORMS DURING MODERN PERIOD

Atmiya Sabha

- 1815-1828
- Calcutta
- Raja Ram Mohan Roy
- To make reforms in the Hindu society

Wahabi Movement

- 1820-1828
- Rohilkhand
- Syed Ahmed of Rae Bareilly
- Popularized the teachings of Waliullah; stressed role of individual conscience in religion.

BRAHMO SAMAJ

- Raja Ram Mohan Roy, Keshab Chandra Sen, Debendranath Tagore
- Emphasized on human dignity, & criticized social evils as Sati
- 1828
- CALCUTTA

Young Bengal(1826-1832)

- Calcutta
- Henry Vivian Derozio.

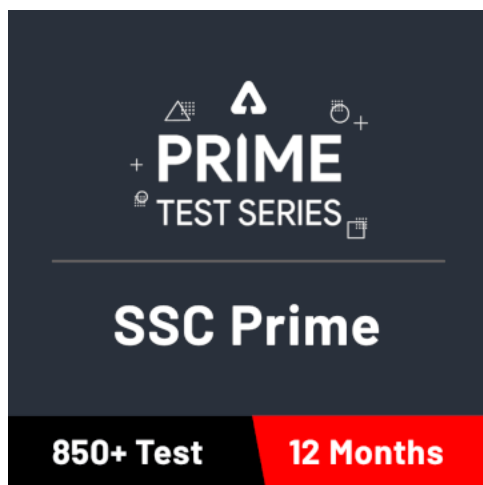
- Opposed vices in the society; believed in truth, freedom, & reason; social reform

Dharma Sabha

- 1830-Calcutta-Radha Kanta Deva
- Founded to oppose Brahmo Samaj Movement &
- Opposed to liberal & radical reforms including Sati.

Kuka/ Namdhari Movement (1872)

- NWF Province & Ludhiana
- Bhai Balak Singh & Baba Ram Singh
- **Spread the true spirit of Sikhism** & opposed to all caste distinctions.



Prarthana Samaj

- 1867
- Bombay
- Dr. Atmaram Pandurang
- Reforming Hindu religious thought & practice in the light of modern knowledge.

Indian Reform Association

- 1870
- Calcutta
- Keshab Chandra Sen
- Create public opinion against child marriages & for legalizing the Brahmo form of (Civil) marriage.
- Promote the intellectual & social service.

Arya Samaj

- 1875
- Bombay
- Swami Dayananda Saraswati
- To reform Hindu religion in North India

Theosophical Society

- 1875
- New York
- Madam HP Blavatsky & Col. H.S Olcott
- Advocated the revival & strengthening of ancient religions.

- of Hinduism, Deccan Zoroastrianism & Buddhism.

Deccan Education Society

- 1884
- Pune
- M.G.Ranade
- To contribute to the cause of education & culture in Western India.

Seva Sadan

- 1885
- Bombay
- Behramji & M.Malabari
- Campaign against child marriages & enforced widowhood & care for socially exploited women.

Ramakrishna Mission

- 1887, Calcutta
- Swami Vivekananda
- To carry on humanitarian relief & social Work

Indian National Social Conference(The social reform cell of the Indian National Congress.)

- 1887
- Bombay
- M.G.Ranade & Raghunath Rao
- To focus attention on matters relating to social reforms. The social reform cell of the Indian National Congress.

Deva Samaj

- 1887
- Lahore
- Shiva Narain Agnihotri
- Ideas closer to Brahmo Samaj He asked his followers to follow social code of conduct & ethics, as not to accept bribe, do not indulge in gambling.

Bharat Dharma Mahamandala

- 1902
- Varanasi
- Pandit Madan Mohan Malaviya
- Organization of the orthodox Hindus, also known as Sanatandharmis, to counter the teachings of the Arya Samaj.

The Servants of India Society

- 1905
- Bombay
- Gopal Krishna Gokhale
- To work for social reforms, & train "national missionaries for the service of India"

Poona Seva Sadan

- 1909

- Pune
- G.K. Devadhar & Ramabai Ranade
- Establish institutions for the economic uplift & useful employment of women.

The Bharat Stri Mandal

- 1910
- Calcutta
- Saralabala Devi Choudharani
- First women's organization on all-India basis to further the cause of women's education.

The Indian Women's Association

- 1917
- Madras
- Mrs Annie Besant
- Work for uplift of Indian women & "to secure a larger a free & fuller life for them".

MUSLIM SOCIAL REFORMS/ORGANIZATION

Khudai Khidmatgar Movement

- 1929.
- NWFP.
- Khan Abdul Gaffar Khan.
- Upliftment of people of Frontier & prepare them for attainment of independence.

Deoband Movement

(A school of Islamic Theology at Deoband Saharanpur,UP)

- 1867
- Deoband
- Mohd. Qasim Nanautavi & Rashid Ahmad Gagothi
- Improve the spiritual & moral conditions of India Muslim.

Aligarh Movement

- 1875
- Aligarh
- Sir Syed Ahmad Khan
- Liberalization of Indian Islam & modernization of Indian Muslims through religious reinterpretation, social reform & modern education.

Ahamadiya Movement

- 1889-90
- Faridkot
- Mirza Ghulam Ahmad
- Universal religion of all humanity, opposed to Islamic orthodoxy & spread of western liberal education among Indian Muslims.

Lower Caste Movements

Satya Shodhak Samaj

- 1873
- Maharashtra

- Jyotiba Phule
- Opposed to untouchability, Brahmin domination, belief in social equality & uplift of the lower castes by educating them.

Aravippuram Movement

- 1888
- Aravippuram, Kerala
- Shri Narayan Guru
- Opposed to religious disabilities against lower castes, believed in social equality, attacked Brahmin domination & worked for the uplift of lower castes by educating them. Demanded free entry of the people of lower castes temples.

The Depressed Classes Mission

- 1906
- Bombay
- V.R.Shinde
- Launched by the Prarthana Samaj as an Independent association to organize education facilities for lower castes.

Bahujan Samaj

- 1910
- Satara, Maharashtra
- Mukundrao Patil
- Opposed to exploitation of the lower castes by the upper caste people. Brahmins, landlords, merchants & moneylenders

Depressed Classes Society

- 1924
- Bombay
- Dr.B.R Ambedkar
- To propagate the gospel of social equality among caste Hindus & untouchables. Demanded constitutional safeguards for the depressed classes.

Self-Respect Movement

- 1925
- Madras (Tamil Nadu)
- E.V.Ramaswami
- Anti-Brahmin & Hindu Orthodoxy radical movement, advocated, weddings without priests, forcible temple entry, total defiance of Hindu social laws.

Harijan Sevak Sangh

- 1932
- Pune
- Mahatma Gandhi
- Organization for removal of untouchability & social discriminations against untouchables & other lower castes. Provide medical, educational & technical facilities to untouchables.

Freedom Fighters

Lokmanya Tilak

1856-1920

Introduced the celebration of Ganesh Chaturthi & Shivaji festivals. Participated in Home Rule Movement in 1916. Called by Britishers as 'Biggest Traitor' & 'Father of Indian dissatisfaction'

Lala Lajpat Rai Sher-e-Punjab.

Was sent to Jail at Mandey on the charges of seditious activities.

Sri Aurobindo Ghosh

His development of National education & editing of Bande Mataram (started by Bipin Chandra Pal) gave momentum to Bengal partition movement. Left Baroda to work in the National College in Calcutta.

Chandra Shekhar Azad

Involved in the assassination of Saunders (officer who ordered the Lathi Charge in which Lala Lajpat was killed), alongwith Bhagat Singh & Rajguru. He had

chalked out a plan to blow up the train in which the Viceroy Lord Irwin was traveling. He was killed in a police encounter at Alfred Park in Allahabad.

Bhagat Singh In association with Chhabil Das & Yashpal he had founded the Punjab Naujawan Bharat Sabha.

Rani Gaidinliu Lead the Nagas in the revolt. Yadunaga was the other leader.

Subhas Chandra Bose

Passed the Civils in 1920 but preferred to serve the nationalist cause. He was elected the Mayor of Calcutta in 1923 but soon arrested & sent to Mandalay.

Elected President at the Haripura session of Congress in 1938. He left for Kabul along with his friend Bhagat Ram. From there he went to Germany & met Hitler. He was first addressed as Netaji in Germany.

Udham Singh

Whilst living in England in 1940, Singh shot dead Sir Michael O'Dwyer, former Governor General of the Punjab.

Geography Capsule For SSC & Railway Exams 2019

Earth Solar System

Earth solar system consists of :

- The Sun
- The Planets
- Dwarf Planets & countless fragments of left – overs called asteroids, meteors, comets & satellites of the planets (Called small solar system Bodies).

Solar System Some Facts

- **Biggest Planet** : Jupiter
- **Smallest Planet** : Mercury
- **Nearest Planet to Sun** : Mercury
- **Farthest Planet from Sun** : Neptune
- **Nearest Planet to Earth** : Venus
- **Brightest Planet** : Venus
- **Brightest star after Sun** : Sirius
- **Planet with maximum satellites:** Jupiter
- **Coldest Planet** : Neptune
- **Hottest Planet** : Venus
- **Heaviest Planet** : Jupiter
- **Red Planet** : Mars
- **Biggest Satellite** : Ganymede
- **Smallest Satellite** : Deimos
- **Blue Planet:** Earth
- **Morning/Evening Star** : Venus
- **Earth's Twin** : Venus
- **Green Planet** : Neptune
- **Planet with a big red spot** : Jupiter
- **Lord of the Heavens** : Jupiter

- **Greatest Diurnal Temperature:** Mercury

Earth Latitude & Longitude

Earth Latitude

- Imaginary lines drawn parallel to the equator. Measured as an angle whose apex is at the centre of the earth.
- The equator represents 0° latitude, while the North Pole is 90° N & the South Pole 90° S
- 23½° N represents Tropic of Cancer while 23½° S represents Tropic of Capricorn.
- 66½° N represents Arctic Circle while 66½° S represents Antarctic Circle.
- There are total 181 latitudes including the equator. Each parallel of latitude is a circle, but they are not equal.
- The circle becomes smaller toward's the poles. Equator is the 'Greatest Circle' that can be drawn on the earth's surface.
- The distance between any two parallels of latitude is always equal.
- 1 degree lat. = 111km.

Earth Longitude

- It is the angular distance measured from the centre of the earth. On the globe the lines of longitude are drawn as a series of semicircles that

extend from the North Pole to the South Pole through the equator. They are also called meridians.

- The distance between any two meridians is not equal.
- At the equator, 1 degree = 111 km. At 30°N or S, it is 96.5 km. It goes on decreasing this way until it is zero at the poles.
- There are 360 meridians of longitude. The prime meridian is a longitude of 00, passing through the Royal Observatory at Greenwich near London.
- This meridian is taken by geographers to divide the earth into the eastern & the western hemispheres.
- Each meridian of longitude is a semi-circle. 180° meridian (International Date Line) lies exactly opposite to 0° meridian. Such points are called Antipodal Points.
- The earth is divided into 24 longitudinal zones, each being 15° or 1 hour apart in time (4 minutes / degree).

Longitude & Time

- Places that are on the same meridian have the same local (sun) time. Since the earth makes one complete revolution of 360° in 24 hours, it passes through 15° in one hour or 1° in 4 minutes.
- The earth rotates from west to east, hence places east of Greenwich see the sun earlier & gain time whereas places west of Greenwich see the sun later & lose time.
- India, whose longitudinal extent is approx. 30°, has adopted only one time zone, selecting the 82.5°E for the standard time which is 5 hours & 30 minutes ahead of GMT (Greenwich Mean Time).

International Date Line

- It is the 180° meridian running over the Pacific Ocean, deviating at Aleutian Islands, Fiji, Samoa & Gilbert Islands. It is a zig-zag line
- Travelers crossing the Date Line from west to east (i.e., from Japan to USA) repeat a day & travelers crossing it from east to west (i.e., from USA to Japan) lose a day.

Important Parallels of Latitude

- 1. The Tropic of Cancer:** It is in the northern hemisphere at an angular distance of 23 1/2° (23°30'N) from the equator.
- 2. The Tropic of Capricorn:** It is in the southern hemisphere at an angular distance of 23 1/2° (23°30'S) from the equator.
- 3. The Arctic Circle:** It lies at a distance of 66 1/2° (66°30'N) north of the equator.
- 4. The Antarctic Circle:** It lies at a distance of 66 1/2° (66°30'S) south of the equator. There are two solstices

each year, called the Summer Solstice & the Winter Solstice.

Summer Solstice: The day of 21st June when the sun is vertically overhead at the Tropic of Cancer (23°30'N). Longest day in Northern Hemisphere.

Winter Solstice: The day of 22nd December when the sun is vertically overhead at the Tropic of Capricorn (23°30'S). Shortest Day in Northern Hemisphere.



Meridians of Longitude

The semi-circles running from pole to pole or from north to south are known as meridians of longitude & distance between them is measured in degrees of longitude. Greenwich Meridian or Prime Meridian with a value of 0° longitude serves as a common base for numbering meridians of longitude lying on either side of it — east as well as west. There are 360 meridians including Prime Meridian. Each degree of a longitude is divided into sixty equal parts, each part is called a minute. Each minute is again divided into sixty equal parts, each part being called a second.

Local Time : Local time of any place is 12 noon when the sun is exactly overhead. It will vary from the Greenwich time at the rate of four minutes for each degree of longitude.

Greenwich Mean Time : The time at 0° longitude is called Greenwich Mean Time. It is based on local time of the meridian passing through Greenwich near London.

Indian Standard Time : It is fixed on the mean of 82 1/2°E Meridian, a place near Allahabad. It is 5 1/2 hours ahead of Greenwich Mean Time.

Facts about Earth

- The Earth also called Blue Planet. It is the densest of all planets.
- **Earth Circumference:** 40,232 Kilometers.
- **Earth Area:** 510 million Square Kilometers
- **Average distance from sun:** 149 million Kilometers.
- **Earth Perihelion:** Nearest position of earth to sun. The earth reaches its perihelion on January 3 every year at a distance of about 147 million-Kilometers.

- **Aphelion:** Farthest position of earth from sun. The earth reaches its aphelion on July 4, when the earth is at a distance of 152 million Kilometers.
- The shape of the earth is oblate spheroid or oblate ellipsoid (i.e. almost spherical, flattened a little at the poles with a slight bulge at the centre).

Types of Earth Movements:

1. Rotation or daily movement.
2. Revolution or annual movement.

Earth Rotation

- Spins on its imaginary axis from west to east in 23 hrs, 56 min & 40.91 sec.
- Rotational velocity at equator is 1667 Kilometers/h & it decreases towards the poles, where it is zero.

Earth's rotation results in

- i. Causation of days & nights;
 - ii. A difference of one hour between two meridians which are 15° apart;
 - iii. Change in the direction of wind & ocean currents; Rise & fall of tides everyday.
 - iv. The longest day in North Hemisphere is June 21, while shortest day is on 22 Dec (Vice-versa in S.Hemisphere).
- Days & nights are almost equal at the equator.

Earth Revolution

- It is earth's motion in elliptical orbit around the sun. Earth's average orbital velocity is 29.79 Kilometers/s.
- Takes 365 days, 5 hrs, 48 min & 45.51 sec. It results in one extra day every fourth year.

Revolution of the earth results in

- i. Change of seasons
- ii. Variation in the lengths of days & nights at different times of the year
- iii. Shifting of wind belts
- iv. Determination of latitudes.

Earth Eclipses

Earth Lunar Eclipse

- When earth comes between sun & moon.
- Occurs only on a full moon day. However, it does not occur on every full moon day because the moon is so small & the plane of its orbit is tilted about 5° with respect to the plane of the earth's orbit. It is for this reason that eclipses do not occur every month.
- This light is red because the atmosphere scatters the other colors present in sunlight in greater amounts than it does red.

Earth Solar Eclipse

A **solar eclipse** is a type of eclipse that occurs when the Moon passes between the Sun & Earth, & the

Moon fully or partially blocks ("occults") the Sun. This can happen only at new moon

INTERIOR STRUCTURE OF THE EARTH

The layering of Earth is categorized as Lithosphere, Asthenosphere, Upper mantle, Lower mantle, Outer core, & the Inner core.

The earth's interior has three different layers; they are

- (i) the crust (ii) mantle & (iii) the core.

a) Earth's Crust:

All of the Earth's landforms (mountains, plains, & plateaus) are contained within it, along with the oceans, seas, lakes & rivers.

- There are two different types of crust: thin oceanic crust that underlies the ocean basins & thicker continental crust that underlies the continents.
- The boundary between the crust & the mantle is Mohorovicic Discontinuity.

b) Earth's Mantle: It is the thick, dense rocky matter that surrounds the core with a radius of about 2885 km.

- The mantle covers the majority of the Earth's volume. This is basically composed of silicate rock rich in iron & magnesium.
- This layer is separated from the core by Gutenberg-Wiechert Discontinuity.
- The outer & the inner mantle are separated by another discontinuity named Repetti discontinuity.

c) Earth's Core: Earth's Core is thought to be composed mainly of an iron & nickel alloy.

- The core is earth's source of internal heat because it contains radioactive materials which release heat as they break down into more stable substances.
- The core is divided into two different zones.
- The outer core is a liquid because the temperatures there are adequate to melt the iron-nickel alloy.
- However, the inner core is a solid even though its temperature is higher than the outer core. Here, tremendous pressure, produced by the weight of the overlying rocks is strong enough to crowd the atoms tightly together & prevents changing it to the liquid state.

EARTHQUAKES

- a) An earthquake is the sudden release of strain energy in the Earth's crust resulting in waves of shaking that radiate outwards from the earthquake source.
- b) The point at the surface directly above the focus is called the earthquake epicentre.
- c) When the earth moves in an earthquake, it can cause waves in the ocean, & if a wave grows large enough, it's called a "tsunami". Underwater

earthquakes sometimes produce large waves called Tsunami.

- e) Earthquakes are measured with a seismometer. The magnitude of an earthquake, & the intensity of shaking, is measured on a numerical scale. On the scale, 3 or less is scarcely noticeable, & magnitude 7 (or more) causes damage over a wide area. The point of origin of earthquake is called Seismic focus. The point on the earth's surface vertically above the earth's surface is called Epicentre.
- f) The passage of earthquake waves is recorded by Seismograph. The magnitude of waves is measured on Richter's scale. For measurement of the intensity of the earthquake (damage caused), the Modified Mercalli Intensity Scale is used.

Distribution of Earthquakes

- a) Around the Pacific Ocean along a belt of volcanoes known as the Ring of Fire. 68 per cent of the volcanoes are experienced in this region.
- b) From the middle of Asia (Himalayas, Caspian Sea) through the Mediterranean Sea to West Indies. 21 per cent earthquakes are experienced in the region.
- c) Mid-Atlantic ridge belt which accounts for 11 percent of the earthquakes.

TYPES OF SEISMIC WAVES

There are two types of seismic waves, body wave & surface waves.

- Body waves travel through the interior of the Earth. They follow ray paths refracted by the varying density & stiffness of the Earth's interior which in turn, vary according to temperature, composition, & phase.

Body waves are divided as

P-WAVES (Primary Waves) are compression waves that are longitudinal in nature. These waves can travel through any type of material, & can travel at nearly twice the speed of S waves.

S-WAVES (Secondary Waves) are shear waves that are transverse in nature. These waves typically follow P waves during an earthquake & displace the ground perpendicular to the direction of propagation. S waves can travel only through solids, as fluids (liquids & gases) do not support shear stresses. S waves are slower than P waves, & speeds are typically around 60% of that of P waves in any given material.

- Surface waves are analogous to water waves & travel along the Earth's surface. They travel slower than body waves.

There are two types of surface waves:

Rayleigh waves, also called ground roll, are surface waves that travel as ripples with motions that are similar to those of waves on the surface of water.

Love waves are surface waves that cause circular shearing of the ground. They are named after A.E.H. Love, a British mathematician who created a mathematical model of the waves in 1911. They usually travel slightly faster than Rayleigh waves, about 90% of the S wave velocity, & have the largest amplitude.

The asthenosphere separates the strong, solid rock of the uppermost mantle & crust above from the remainder of the strong, solid mantle below. The combination of uppermost mantle & crust above the asthenosphere is called the lithosphere. The lithosphere is free to move (glide) over the weak asthenosphere. The tectonic plates are, in fact, lithospheric plates.

VOLCANOES

A volcano is generally a conical shaped hill or mountain built by accumulations of lava flows, & volcanic ash.

- About 95% of active volcanoes occur at the plate subduction zones & at the mid-oceanic ridges.
- Subduction is the process that takes place at convergent boundaries by which one tectonic plate moves under another tectonic plate & sinks into the mantle as the plates converge. Regions where this process occurs are known as subduction zones.
- The other 5% occur in areas associated with lithospheric hot spots. It is believed that hot spots are caused by plumes of rising magma that have their origin within the asthenosphere.

Types of Volcanoes

Geologists have classified five different types of volcanoes. This classification is based on the geomorphic form, magma chemistry, & the explosiveness of the eruption.

Shield Volcano- Slightly sloping volcanoes, 6 to 12°, that have gently flowing magmas called shield volcanoes. **Shield volcanoes** can be up to 9000 meters tall. The volcanoes of the Hawaiian Islands are typical of this type.

Cinder Cone volcano is a small volcano, between 100 & 400 meters tall, made up of exploded rock blasted out of a central vent at a high velocity. These volcanoes develop from magma of basaltic to intermediate composition. They form when large amounts of gas accumulate within rising magma. Examples of cinder cones include Little Lake Volcano in California & Paricuti Volcano in Mexico.

Composite volcanoes are made from alternate layers of lava flows & exploded rock. Their height ranges from 100 to 3500 meters tall. The chemistry of the

magma of these volcanoes is quite variable ranging from basalt to granite.

Classification on the basis of Periodicity of Eruptions

- **Active Volcano:** Volcanoes which erupt periodically. E.g. Mauna Loa in Hawaii, Etna in Sicily, Vesuvius in Italy, Stromboli in Mediterranean Sea, etc.
- **Dormant Volcano:** Volcanoes which has been quiet for a long time but in which there is a possibility of eruption. E.g. Fujiyama in Japan, Krakatoa in Indonesia, Barren island Volcano in Andamans, etc.
- **Extinct Volcano:** An extinct volcano has not had an eruption for at least 10,000 years and is not expected to erupt again in a comparable time scale of the future.

Distribution of Volcanoes in the World

About 15% of world's active volcanoes are found along the 'constructive or divergent' plate margins, whereas 80% volcanoes are associated with the 'destructive or convergent' plate boundaries.

Earth Mountains

Types of Mountains

- **Fold Mountains:** They are formed when the rocks of the crust of the earth folded under stress, mainly by forces of compression (as a result of series of earthquakes). **E.g.** – All big Mountain Systems: Himalayas, Alps, Andes, Rockies, Atlas, etc.
- **Block Mountains:** When large areas are broken and displaced vertically, Block Mountains are formed. In this case, the uplifted blocks are called horsts. On the other hand, the lowered blocks are called graben.
- **Relict Mountains:** Sometimes, the mountains are carved out as a result of erosion of plateaus & high planes by various agents of erosion. E.g., Highlands of Scotland, Sierras of Spain, Catskill mountains of New York & Nilgiri, Parasnath, Girnar, Rajmahal of India.
- **Volcanic Mountain:** A mountain formed due to volcanic activity is called Volcanic Mountain. Examples of Volcanic Mountains are; Mt. Kilimanjaro and Mt. Fujiyama.

ROCKS & MINERALS

About 98 per cent of the total crust of the earth is composed of eight elements like oxygen, silicon, aluminium, iron, calcium, sodium, potassium & magnesium & the rest is constituted by titanium, hydrogen, phosphorous, manganese, sulphur, carbon, nickel & other.

1) The three types of rocks are

i) Igneous Rocks

1) Igneous rocks solidify from a liquid magma as it cools. When magma cools rapidly, mineral crystals do not have time to grow very large. On the other hand when magma cools slowly crystals grow to several millimeters or more in size.

Granite & basalt are the examples of IR. Igneous rocks are classified as

a) Extrusive Rocks

Extrusive igneous rocks solidify from molten material that flows over the earth's surface (lava).

Common extrusive rocks are

- basalt,
- andesite, &
- rhyolite.

b) Intrusive Rocks

Intrusive rocks form from molten material (magma) that flows & solidifies underground.

Common rock types within the intrusive category are granite & diorite.

ii. Sedimentary Rocks

These are types of rocks created from deposition of layers upon layers of sediments over time. These types of rocks are formed on the Earth's surface, as well as underwater.

Examples – Sandstone, limestone, stromatolites, oil shale & coal shale, gypsum, shale, & conglomerate.

iii. Metamorphic Rocks

Metamorphic rocks are any rock type that has been altered by heat, pressure, and/or the chemical action of fluids & gases. When igneous rocks, or sedimentary rocks, or even metamorphic rocks get buried very deep under the earth's surface, a process that takes millions of years, they get changed into something else by the enormous pressure & heat inside the earth.

Some examples of metamorphic rocks are:

- Limestone being changed into marble
- Shale turning into slate
- Granite being changed into gneiss
- Sandstone turning into quartzite

ATMOSPHERE

Atmosphere is a thick gaseous envelope that surrounds the earth & extends thousands of kilometers above the earth's surface. Much of the life on the earth exists because of the atmosphere otherwise the earth would have been barren. Nitrogen & Oxygen comprise 99% of the total volume of the atmosphere.

Structure of the Atmosphere

The atmosphere consists of almost concentric layers of air with varying density & temperature.

a) Troposphere:

- Lowest layer of the atmosphere.

- The height of troposphere is 16 km thick over the equator & 10 km thick at the poles.
- All weather phenomena are confined to troposphere (e.g. fog, cloud, frost, rainfall, storms, etc.)
- Temperature decreases with height in this layer roughly at the rate of 6.5° per 1000 metres, which is called **normal lapse rate**.
- Upper limit of the troposphere is called **tropopause** which is about 1.5 km.
- **b) Stratosphere:**
- The stratosphere is more or less devoid of major weather phenomenon but there is circulation of feeble winds & cirrus cloud in the lower stratosphere.
- Jet aircrafts fly through the lower stratosphere because it provides perfect flying conditions.
- Ozone layer lies within the stratosphere mostly at the altitude of 15 to 35 km above earth's surface.
- Ozone layer acts as a protective cover as it absorbs ultra-violet rays of solar radiation.
- Depletion of ozone may result in rise of temperature of ground surface & lower atmosphere.
- Temperature rises from -60°C at the base of the stratosphere to its upper boundary as it absorbs ultra-violet rays.
- Upper limit of the Stratosphere is called **stratopause**.
- **c) Mesosphere**
- Mesosphere extends to the height of 50-90 km.
- Temperature decreases with height. It reaches a minimum of -80°C at an altitude of 80-90 km
- The upper limit is called **mesopause**.
- **d) Thermosphere**
- It lies at 80 km to 640 km above the earth's surface.
- It is also known as ionosphere.
- Temperature increases rapidly with increasing height.
- It is an electrically charged layer. This layer is produced due to interaction of solar radiation & the chemicals present, thus disappears with the sunset.
- There are a number of layers in thermosphere e.g. D-layer, E-layer, F-layer & G-layer.
- Radio waves transmitted from earth are reflected back to the earth by these layers.
- **e) Exosphere**
- This is the uppermost layer of the atmosphere extending beyond the ionosphere.
- The density is very low & temperature becomes 5568°C .
- This layer merges with the outer space.

About Ionosphere

At heights of 80 km (50 miles), the gas is so thin that free electrons can exist for short periods of time before they are captured by a nearby positive ion. This portion of the atmosphere is ionized & contains plasma which is referred to as the ionosphere. The Ultraviolet (UV), X-Ray & shorter wavelengths of solar radiation ionizes the atmosphere. The ionosphere is broken down into the D, E & F regions.

PRESSURE & WIND BELTS

Air pressure is thus defined as total weight of a mass of column of air above per unit area at sea level. The amount of pressure exerted by air at a particular point is determined by temperature & density which is measured as a force per unit area.

- **Aneroid Barometer**-It is the most common type barometer used in homes.

Pressure Belts of the World

a) Equatorial Low Pressure Belt:

- At the Equator heated air rises leaving a low-pressure area at the surface. This low pressure area is known as **equatorial low pressure**.
- The zone shifts along with the northward or southward movement of sun during summer solstice & winter solstice respectively.
- The pressure belt is thermally induced because the ground surface gets heated during the day. Thus warm air expands, rises up & creates low pressure. They are also called Doldrums.
- Extend 5° N & S to the equator.

b) Sub-tropical High Pressure Belt:

- The warm air risen up at the equator due to heating reaches the troposphere & bend towards the pole.
- Due to coriolis force the air descends at $30-35^{\circ}$ N & S latitude thus creates the belt of **sub-tropical high pressure**.
- The pressure belt is dynamically induced as it owes its origin to the rotation of the earth & sinking & settling of winds. This zone is characterized by anticyclonic conditions which cause atmospheric stability & aridity. Called as Horse latitudes

c) Sub-Polar Low Pressure Belt:

- This belt is located between $60-65$ degrees N & S latitudes in both the hemisphere.
- This pressure belt is also dynamically induced. The belt is more developed & regular in the southern hemisphere than the northern due to over dominance of water in the former.

d) Polar High Pressure Belt:

High pressure persists at the pole due to low temperature. Thus the Polar High Pressure Belt is thermally induced as well as dynamically induced as the rotation of earth also plays a minor role.

Coriolis Force

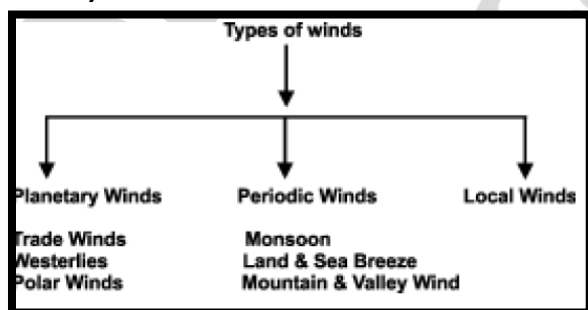
The rotation of the Earth creates force, termed Coriolis force, which acts upon wind. Instead of wind blowing directly from high to low pressure, the rotation of the Earth causes wind to be deflected off course.

- In the Northern Hemisphere, wind is deflected to the right of its path, while in the Southern Hemisphere it is deflected to the left.
- Coriolis force is absent at the equator, & its strength increases as one approaches either pole. Furthermore, an increase in wind speed also results in a stronger Coriolis force, & thus in greater deflection of the wind.

Winds

- When the movement of the air in the atmosphere is in a horizontal direction over the surface of the earth, it is known as the wind.
- Movement of the wind is directly controlled by pressure.
- Horizontally, at the Earth's surface wind always blows from areas of high pressure to areas of low pressure usually at speeds determined by the rate of air pressure change between pressure centres.

I. Planetary winds:



Planetary winds are major component of the general global circulation of air. These are known as planetary winds because of their prevalence in the global scale throughout the year. Planetary winds occur due to temperature & pressure variance throughout the world.

The planetary winds are discussed below:

(a) Trade wind

Winds blowing from the Subtropical High Pressure Belt or horse latitudes towards the Equatorial Low Pressure Belt or the ITCZ are the trade winds.

- In the Northern Hemisphere, the trade winds blow from the northeast & are known as the **Northeast Trade Winds**
- In the Southern Hemisphere, the winds blow from the southeast & are called the **Southeast Trade Winds**.

(b) Westerly Wind

The Westerlies are the prevailing winds in the middle latitudes between 35° & 65° latitude, blowing from the high pressure area in the Sub Tropical High Pressure Belt i.e. horse latitudes towards the sub polar low pressure belt.

- The winds are predominantly from the south-west to north-east in the Northern Hemisphere & from the north-west to south-east in the Southern Hemisphere.
- The Westerlies are strongest in the winter season & times when the pressure is lower over the poles, while they are weakest in the summer season & when pressures are higher over the poles.
- The Westerlies are particularly strong, especially in the Southern Hemisphere, as there is less land in the middle latitudes to obstruct the flow.

(c) Polar Wind

The winds blowing in the Arctic & the Antarctic latitudes are known as the Polar Winds.

- They have been termed the '**Polar Easterlies**', as they blow from the Polar High Pressure belt towards the Sub-Polar Low-Pressure Belts.
- In the Northern Hemisphere, they blow in general from the north-east, & are called the North-East Polar Winds; & in the Southern Hemisphere, they blow from the south-east & are called the South-East Polar Winds.
- As these winds blow from the ice-capped landmass, they are extremely cold.

They are more regular in the Southern Hemisphere than in the Northern Hemisphere.

II. Periodic Winds: They change their direction periodically with change in season.

- Land & sea breezes & monsoon winds are winds of a periodic type.
- Land & sea breezes occur daily, whereas the occurrence of monsoon winds is seasonal.
- Following are periodic winds:
 - (a) Monsoon winds
 - (b) Land & Sea Breeze
 - (c) Mountain & Valley Breeze

(a) Monsoon Winds

Monsoons are regional scale wind systems that periodically change direction with the passing of the seasons. Like land & sea breezes, these wind systems

are created by the temperature contrasts that exist between the surfaces of land & ocean.

(b) Land & Sea Breezes:

- A **land breeze** is created when the land is cooler than the water such as at night & the surface winds have to be very light. When this happens the air over the water slowly begins to rise, as the air begins to rise, the air over the surface of the ocean has to be replaced, this is done by drawing the air from the land over the water, thus creating a sea breeze.
- A **sea breeze** is created when the surface of the land is heated sufficiently to start rising of the air. As air rises, it is replaced by air from the sea; created a sea breeze. Sea breezes tend to be much stronger & can produce gusty winds as the sun can heat the land to very warm temperatures, thereby creating a significant temperature contrast to the water.

(c) Mountain & Valley winds: Mountain-valley breezes are formed by the daily difference of the thermo effects between peaks & valleys. In daytime, the mountainside is directly heated by the sun, the temperature is higher, air expands, air pressure reduces, & therefore air will rise up the mountainside from the valley & generate a valley breeze.

Anabatic & Katabatic winds: Katabatic is a local wind caused (often at night) by the flow of air, cooled by radiation, down mountain slopes and valleys. Anabatic is an upslope wind formed when air on hill sides is heated by insolation conduction to a greater extent than air at the same horizontal level but vertically above the valley floor.

III. Local Winds

These local winds blow in the various region of the world.

Hot Winds

Sirocco - Sahara Desert
Leveche - Spain
Khamsin - Egypt
Harmattan - Sahara Desert
Santa Ana - USA
Zonda - Argentina
Brick fielder - Australia
Loo - India

Cold Winds

Mistral - Spain & France
Bora - Adriatic coast
Pampero - Argentina
Buran - Siberia

JET-STREAMS

The JET STREAMS located in the upper troposphere (9 - 14 km) are bands of high speed winds (95-190 km/hr). The term was introduced in 1947 by Carl Gustaf Rossby. Average speed is very high with a lower limit of about 120 Kms in winter & 50 km per hours in summer. The two most important types of jet streams are the **Polar Jet Streams** & the **Subtropical Jet Streams**.

EL NINO & LA NINA – El Nino and La Nina events are a natural part of the global climate system. El Nino events are associated with a warming of the central and eastern tropical Pacific, while La Nina events are the reverse, with a sustained cooling of these same areas.

CYCLONES

Cyclones are well developed low-pressure systems surrounded by closed isobars having increasing pressure outside & closed air circulation towards the centre such that the air blows inward in anticlockwise direction in the northern hemisphere & clockwise in the southern hemisphere.

A. Tropical cyclones

Tropical cyclones are intense cyclonic storms that develop over the warm oceans of the tropics. Surface atmospheric pressure in the centre of tropical cyclones tends to be extremely low.

The main characteristics of tropical cyclones are:-

- Have winds that exceed 34 knots (39 miles/hr)
- Blow clockwise in the Southern Hemisphere and
- Counter-clockwise about their centres in the Northern Hemisphere

This is one of the most devastating natural calamities.

- ✚ They are known as Cyclones in the Indian Ocean
- ✚ Hurricanes in the Atlantic
- ✚ Typhoons in the Western Pacific & South China Sea
- ✚ Willy-Willies in the Western Australia.

B. Temperate cyclones

The systems developing in the mid & high latitude, beyond the tropics are called the middle latitude or temperate cyclones.

Extra tropical cyclones form along the polar front. Two air masses of contrasting physical properties:

One air mass is polar in character & is cold, denser & north-easterly in direction while the other air mass is tropical in origin & is warm, moist, lighter & south westerly in direction.

An **anticyclone** is a region of high atmospheric pressure related to the surrounding air, generally

thousands of kilometres in diameter & also known as a **high** or **high-pressure system**. Winds in an anticyclone form a clockwise out-spiral in the Northern Hemisphere; whereas they form an anti-clockwise out-spiral in the Southern Hemisphere.

OCEANOGRAPHY

The study of sea floor by echo method of sound waves reveals that the sea floor is not a flat area. It consists of mountains, plateaus, plains & trenches etc. Some major submarine features are described below.

a) Continental Shelf

- 1) The portion of the land which is submerged under sea water is continental shelf.
- 2) The continental shelf is shallow & its depth is not more than 200 metres.
- 3) In all about 7.5 percent of total area of the oceans is covered by the continental shelves.

The shelves are of great use to man because:

1. Marine food comes almost entirely from them.
2. About 20 percent of oil & gas of the world is extracted from them.
3. They are the sites of productive fishing grounds.

b) Continental Slope

It is an area of steep slope extending just after the continental shelf up to a considerable depth from where a gentle sea plain takes its form. The extent of the slope area is usually between 200-2000 m. But sometimes it may extend to 3660 metres from the mean sea level. The continental slope along many coasts of the world is followed by deep canyon like trenches terminating as fan shaped deposits at the base. Continental slope covers 8.5 percent of the total ocean area.

c) Continental Rise

- 1) The gently sloping surface at the base of the continental slope is called continental rise.
- 2) It may extend to hundreds of km into the deep ocean basin.

d) Deep Ocean Basins

It is the portion of sea floor that lies between the continental margin & the oceanic ridge system. It contains deep-ocean trenches, abyssal plains, & broad volcanic peaks called seamounts.

I. Deep-Ocean Trenches:

- a) These are long, narrow features that form the deepest parts of the ocean.
- b) Most trenches are located in the Pacific Ocean.
- c) They may reach 10,000 m deep
- d) Mariana trench is about 11,000 m below sea level in PO.

II. Abyssal Plains:

These are the most level places on Earth. The abyssal plains may have less than 3 m of relief over a distance that may exceed 1300 km. Scientists determined that abyssal plains low relief is due to the fact that thick accumulations of sediment, transported by turbidity currents, have buried rugged ocean floor.

III. Seamounts:

It is an isolated volcanic peak that rises at least 1000 m (3300 ft) above the deep-ocean floor.

They are more extensive in the Pacific Ocean, where subduction zones are common. These undersea volcanoes form near oceanic ridges (regions of seafloor spreading). Some of these volcanoes may emerge as an island.

e) Submarine Canyons

These are depressions with walls of steep slopes & have a V shape. They exist on the continental slopes & the shelves. They are found to have a length of 16 km at the maximum.

OCEAN CURRENTS

Ocean currents are large masses of surface water that circulate in regular patterns around the oceans. Those that flow from equatorial regions polewards have a higher surface temperature & are warm currents. Those that flow from polar regions equatorwards have a lower surface temperature & are cold currents.

Factors lead to OCEAN CURRENT

1. The planetary winds.
2. Temperatures.
3. Salinity.
4. The earth's rotation.
5. Land.

THE CIRCULATION (THE ATLANTIC OCEAN)

- At the 'shoulder' of north-east Brazil, the protruding lands mass splits the South Equatorial Current into the Cayenne Current which flows along the **Guiana coast, & the Brazilian Current** which flows southwards along the east coast of Brazil.
- Part of the current enters the Gulf of Mexico & emerges from the Florida Strait between Florida & Cuba as the **Florida Current**.
- The rest of the equatorial water flows northwards east of the Antilles **to join the Gulf Stream off the south-eastern U.S.A.**
- The Gulf Stream Drift is one of the strongest ocean currents & hugs the coast of America as far as Cape Hatteras (latitude 35°N), where it is deflected eastwards under the combined

influence of the Westerlies & the rotation of the earth. It reaches Europe as the **North Atlantic Drift**.

- The cold **Labrador Current** drift southeastwards between West Greenland & Baffin Island to meet the warm Gulf Stream off Newfoundland.
- On reaching the west coast of Africa the current is diverted northwards as **the cold Benguela Current** (the counterpart of the Canaries Current).

THE CIRCULATION (PACIFIC OCEAN)

- The North- East Trade Winds blow the **North Equatorial Current** off the coasts of the Philippines & Formosa into the East China Sea as the Kuroshio or Japan current.
- The cold **Bering Current or Alaskan Current** creeps southwards from the narrow Bering Strait & is joined by Okhotsk Current to meet the warm Japan Current as **the Oyashio**, off Hokkaido.
- The South Equatorial Current, driven by the South-East Trade winds, flows southwards along the coast of Queensland as the **East Australian Current**. Obstructed by the tip of southern Chile, the current turns northwards along the western coast of South America as the **cold Humboldt or Peruvian Current**.

THE INDIAN OCEAN CIRCULATION

- The currents of **South Indian Ocean** form a circuit.
- The Equatorial Current, turning southwards past Madagascar as the Agulhas or Mozambique Current merges with the West Wind Drift, flowing eastwards & turns equator-wards as the West Australian Current.
- In the North Indian Ocean, there is a complete reversal of the direction of currents between summer & winter, due to the changes of monsoon winds.
- In summer from June to October, when the dominant wind is the South-West Monsoon, the currents are blown from a south-westerly direction as the South- West Monsoon Drift. This is reversed in winter; Monsoon blows the currents from the north-east as the North-East Monsoon Drift. The currents of the North Indian Ocean, demonstrate most convincingly the dominant effects of winds on the circulation of ocean currents.

OCEANS

Arctic Ocean-- The Arctic Ocean is the smallest of the world's five oceans. The Northwest Passage (US & Canada) & Northern Sea Route (Norway & Russia) are two important seasonal waterways. It is a body of water between Europe, Asia, & North America, mostly north of the Arctic Circle.

Lowest point: Fram Basin (Now known as Nansen Basin)

Atlantic Ocean-- The Atlantic Ocean is the second largest of the world's five oceans. The Kiel Canal (Germany), Oresund (Denmark-Sweden), Bosphorus (Turkey), Strait of Gibraltar (Morocco-Spain), & the Saint Lawrence Seaway (Canada-US) are important strategic access waterways.

It is a body of water between Africa, Europe, the Southern Ocean, & the Western Hemisphere. **It includes** includes Baltic Sea, Black Sea, Caribbean Sea, part of the Drake Passage, Gulf of Mexico, Mediterranean Sea, & other tributary water bodies. Panama Canal connects the Atlantic and Pacific oceans

Lowest point: Milwaukee Deep in the Puerto Rico Trench

Indian Ocean- The Indian Ocean is the third largest of the world's five oceans. Four critically important access waterways are the Suez Canal (Egypt), Bab-el Mandeb (Djibouti-Yemen), Strait of Hormuz (Iran-Oman), & Strait of Malacca (Indonesia-Malaysia). It is a body of water between Africa, the Southern Ocean, Asia, & Australia. It includes Andaman Sea, Arabian Sea, Bay of Bengal, Flores Sea, Gulf of Aden, Gulf of Oman, Java Sea, Red Sea, Strait of Malacca, Timor Sea, & other tributary water bodies.

Lowest point: Java Trench

Pacific Ocean

The Pacific Ocean is the largest of the world's five oceans. Strategically important access waterways include the La Perouse, Tsugaru, Tsushima, Taiwan, Singapore, & Torres Straits.

It is body of water between the Southern Ocean, Asia, Australia, & the Western Hemisphere. It includes Bali Sea, Bering Sea, Coral Sea, East China Sea, Gulf of Alaska, Philippine Sea, Sea of Japan, Sea of Okhotsk, Tasman Sea, & other tributary water bodies.

Lowest point: Challenger Deep in the Mariana Trench.

Southern Ocean -The Southern Ocean, also known as the Antarctic Ocean or the Austral Ocean, comprises the southernmost waters of the World Ocean, generally taken to be south of 60° S latitude and encircling Antarctica.

TIDES

The tide is the periodic rise & fall of the sea levels caused by the combined effects of the gravitational forces exerted by the Moon & Sun & rotation of the earth.

- Most places in the ocean usually experience two high tides & two low tides each day (semidiurnal)

tide), but some locations experience only one high & one low tide each day (diurnal tide).

- The times & amplitude of the tides at the coast are influenced by the alignment of the Sun & Moon, by the depth of the ocean, & by the shape of the coastline & near-shore bathymetry.

When the moon exerts gravitational force on the earth the tidal bulge moves out & causes high tide. Simultaneously on the side opposite to that place on the earth i.e. just at 180° to it, also experiences the tidal bulge due to reactionary force (centrifugal) of the gravitational (centripetal) force. Thus two tides are experienced twice at every place on the earth's water surface within 24 hours.

Due to the cyclic rotation of the earth & moon, the tidal cycle is 24 hours & 52 minutes long.

Causes of Tides

- Gravitational attraction between moon & the earth.
- Gravitational attraction between sun & the earth.
- Attraction force of the earth towards earth centre.
- Moon is mainly responsible for the tides.

Types of Tides

- Semi diurnal tides - Recur at the intervals of 12½ hours.
- Diurnal Tides - Recur at the intervals of 24½ hours.
- Spring Tides - once a fortnight, due to the revolution of the moon & its declination.
- Neap tides - Once a fortnight due to the revolution & declination of moon.
- Monthly tides - Due to the revolution of the moon & its position at Perigee & Apogee.

SPRING TIDES

Spring tides are especially strong tides or high tides. They occur when the Earth, the Sun, & the Moon are in a line. The gravitational forces of the Moon & the Sun both contribute to the tides. Spring tides occur during the full moon & the new moon.

NEAP TIDES

Neap tides are especially weak tides. They occur when the gravitational forces of the Moon & the Sun are perpendicular to one another (with respect to the Earth). Neap tides occur during quarter moons.

The Bay of Fundy between Nova Scotia & New Brunswick in Canada experiences the world's greatest tidal range of 50 feet (15.25 meters)

MOUNTAINS OF INDIA

The Himalayas

Means 'Abode of Snow'. They are one of the youngest fold mountain ranges in the world & comprise mainly sedimentary rocks.

- They stretch from the Indus River in the west to the Brahmaputra River in the east.

- The Eastern Himalayas-made up of Patkai Hills, Naga Hills, Mizo Hills & the Garo, Khasi & Jaintia Hills-are also known as Purvanchal.

- The Pamir, popularly known as the Roof of the World, is the connecting link between the Himalayas & the high ranges of Central Asia.

Can be divided into 3 parallel or longitudinal zones, each with separate features.

THE GREAT HIMALAYAS OR THE HIMADRI

- There are few passes & almost all of them have a height above 4,500 m.
 - They include Shipki La & Bara Lapcha La in Himachal Pradesh, Burzil & Zozi La in Kashmir, Niti, Lipulekh & Thang La in Uttaranchal, & Jelep La & Nathu La in Sikkim.
 - Average elevation extends upto 6000m
- Some of the world's highest peaks are:

Mt Everest (or Sagarmatha or Chomo Langma)	8848 m (in Nepal)
Mt Kanchenjunga	8598 m (in India)
Mt Makalu	8481 m (in Nepal)
Mt Dhaulagiri	8172 m (in Nepal)
Mt Cho Oyu	8153m (in Nepal)
Mt Nanga Parbat	8126m (in India)
Mt Annapurna	8078 m (in Nepal)
Mt Nanda Devi	7817 m (in India)

LESSER HIMALAYAS OR THE HIMACHAL

- Average height of mountains is 3700 – 4500 m.
- Mountains & valleys are disposed in all direction (mountains rising to 5000 m & the valleys touching 1000 m).

Its important ranges are: Dhauladhar, Pir Panjal, Nag Tibba, Mussoorie.

Outer Himalayas or The Shiwaliks

- Lowest range (average elevation is 900-1200 m).
- Forms the foothills & lies between the Lesser Himalayas & the plains. It is the newest range.

TRANS – HIMALAYAN ZONE

This range lies to the north of the Great Himalayas.

- It has some important ranges like Karakoram, Ladakh, Zaskar, etc.
- The highest peak in this region is K₂ or Godwin Austin (8611m, in Pak occupied Kashmir). Other high peaks are Hidden Peak (8068 m), Broad Peak (8047 m) & Gasherbrum II (8035 m).
- The longest glacier is Siachin in the Nubra valley, which is more than 72 km long (biggest glacier in the world). Biafo, Baltaro, Batura, Hispar are the other important glaciers in this region.

This area is the largest snow-field outside the Polar Regions.

IMPORTANT FACTS

⇒ Uttar Pradesh borders the maximum number of States-8 (Uttarakhand, HP, Haryana, Rajasthan, MP, Chhattisgarh, Jharkhand, Bihar).

⇒ After UP is Assam, which touches the border of 7 States.

⇒ **Tropic of Cancer passes through 8 States:** Gujarat, Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, West Bengal, Tripura, Mizoram.

⇒ **Indian Standard Meridian passes through 5 States:** UP, MP, Chhattisgarh, Orissa, Andhra Pradesh.

⇒ **10 States form the coast of India. They are:** Gujarat, Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Telangana, Odisha & West Bengal.

⇒ 2 Union Territories, viz. Daman & Diu & Pondicherry are also on the coast.

⇒ The Union Territories of Andaman & Nicobar Islands & Lakshadweep are made up of islands only.

THE PLAINS OF INDIA

To the south of the Himalayas & to the north of the Peninsula lies the great plains of North India. They are formed by the depositional works of three major river systems, Indus, Ganga & Brahmaputra. The vast plains of north India are alluvial in nature & the westernmost portion is occupied by the Thar Desert.

The thickness of the alluvium is maximum in the Ganga plains & minimum in the Western Plains.

The plains consist of four divisions: Physiographic

Bhabar : Along the foothills of Shiwaliks. Highly porous – (Smaller Streams disappear)

Tarai : Re-emergence of streams. Zone of excessive dampness – South of Bhabar

Bhangar : Older alluvial plains, contain calcareous formations called 'kankar'

Khadar : New alluvium & forms the flood plains along the river banks.

Delta : A river delta is a landform that forms from deposition of sediment carried by a river as the flow leaves its mouth and enters slower-moving or stagnant water.

PENINSULAR PLATEAU OF INDIA

Spreads south of the Indo-Gangetic plains flanked by sea on three sides. This plateau is shaped like a triangle with its base in the north. The Eastern Ghats & the Western Ghats constitute its eastern & western boundaries, respectively.

⇒ Narmada, which flows through a rift valley, divides the region into two parts: The Malwa Plateau in the north & the Deccan Plateau in the south.

⇒ Vindhya Plateau is situated south of Malwa plateau.

⇒ Chhota Nagpur Plateau lies to the west of Bengal basin, the largest & most typical part of which is the Ranchi plateau.

⇒ The Deccan Plateau is the largest plateau in India. It is made up of lava flows in the Cretaceous-Eocene era through the fissure eruptions.

ISLANDS OF INDIA

Total coastline of India: 7516 km. Longest coastline: Gujarat (Second longest is of Andhra Pradesh).

Indian territorial limits include 248 islands:

The Andaman & Nicobar Group

Andamans is a group of 204 islands of which the largest is Middle Andaman. The Andamans are believed to be extensions of mountains system in the N.E. part of the country.

Saddle Peak (737 m) in N.Andaman is the highest peak.

The Nicobars is a group of 19 islands of which the largest is Great Nicobar. Most of them are volcanic in nature. Great Nicobar is the southernmost island & is only 147 km away from Sumatra island of Indonesia.

Volcanic Islands: Barren & Narcondam Islands. Barren is in the process of eruption these days after lying dormant for 200 years.

The Arabian Sea Group

All the islands in the Arabian Sea (Total 25) are coral islands & are surrounded by Fringing Reefs (North : Lakshadweep, South: Minicoy).

DO YOU KNOW?

Ten Degree Channel separates Andamans from Nicobars (Little Andaman from Car Nicobar)

Duncan Passage lies between South Andaman & Little Andaman.

Nine Degree Channel separates Kavaratti from Minicoy Island.

Eight Degree Channel separates Minicoy Island (India) from Maldives.

RIVERS OF INDIA

In India, the rivers can be divided into two main groups:

Himalayan Rivers-- 1) Indus 2) Ganga 3) Brahmaputra

Peninsular Rivers-- 1) East flowing 2) West flowing

HIMALAYAN RIVERS OF INDIA

THE INDUS SYSTEM

It has a total length of 2880 km (709 km in India). Rises in Tibet (China) near Mansarovar Lake. In Jammu & Kashmir, its Himalayan tributaries are: Zaskar, Dras, Gartang, Shyok, Shigar, Nubra, Gilgit, etc. Its most important tributaries, which join Indus at various

places, are: Jhelum, Chenab (1800 km), Ravi, Beas & Satluj.

Sources: Jhelum from Verinag (SE Kashmir), Ravi from Kullu Hills near Rohtang Pass in Himachal Pradesh, Beas from a place near Rohtang Pass in Himachal Pradesh & Satluj from Mansarovar – Rakas lakes in W. Tibet, Chenab-near Bara Lacha Pass, Himachal Pradesh

THE GANGA SYSTEM

It is 2525 km long of which 1450 km is in Uttarakhand & UP, 445 km in Bihar & 520 km in West Bengal. The Ganga, the head stream is constituted of two main rivers – Bhagirathi & Alaknanda, which combine at Devprayag to form Ganga.

Sources: Bhagirathi from Gaumukh, Alaknanda from Badrinath, Mandakini from Kedarnath (all from Uttarakhand).

Yamuna (1375 km) is its most important tributary (on right bank). It rises at the Yamunotri glacier in Uttarakhand. It runs parallel to Ganga for 800km & joins it at Allahabad. Important tributaries of Yamuna are Chambal, Betwa (480 km) & Ken (all from south).

Apart from Yamuna, other tributaries of Ganga are Ghaghra (1080 km), Son (780 km), Gandak (425 km), Kosi (730 km), Gomti (805 km), Damodar (541 km). Kosi is infamous as 'Sorrow of Bihar', while Damodar gets the name 'Sorrow of Bengal' as these cause floods in these regions. Hooghli is a distributary of Ganga flowing through Kolkata.

THE BRAHMAPUTRA SYSTEM

It has a total length of 2900 km. It rises in Tibet (from Chemayungdung glacier), where it is called Tsangpo, & enters the Indian territory (in Arunachal Pradesh) under the name Dihang. Important Tributaries: Subansiri, Kameng, Dhansiri, Manas, Teesta. In Bangladesh, Brahmaputra is known by the name of Jamuna while Ganga gets the name Padma. Their combined stream is known as Padma only. Meghna is the most important distributary before it enters the Bay of Bengal.

The combined stream of Ganga & Brahmaputra forms the biggest delta in the world, the Sundarbans, covering an area of 58,752 sq. km. Its major part is in Bangladesh.

On Brahmaputra is the river island, Majuli on Brahmaputra in Assam, is the biggest river island in the world.

Brahmaputra, or the Red River, is navigable for a distance of 1384 km up to Dibrugarh & serves as an excellent inland water transport route.

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RIVERS OF THE PENINSULA IN INDIA

A. EAST FLOWING RIVERS OF INDIA (OR DELTA FORMING RIVERS)

Mahanadi River (858 km): Rises in Raipur distt. in Chhatisgarh. **Godavari River (1465 km):** Also called Vriddha Ganga or Dakshina Ganga. It is the longest peninsular river. Rises in Nasik. Main tributaries: Manjra, Penganga, Wardha, Indravati, Wainganga, etc.

Krishna River (1327 km): Rises in Western Ghats near Mahabaleshwar. Main tributaries: Koyna, Dudhganga, Panchganga, Malprabha, Bhima, Tungabhadra, etc.

Cauvery River (805 km): It is the largest peninsular river (maximum amount of water). Infact, it is the only peninsular river which flows almost throughout the year. Known as the 'Ganga of the South'. It rises from the Brahmagir range of Western Ghats. Main tributaries: Hemavati, Lokpawni, Shimsa.

Swarnarekha River (395 km) & Brahmani (705 km): Rises from Ranchi Plateau.

B. WEST FLOWING RIVERS IN INDIA

Narmada River (1312 km): Rises in Amarkantak Plateau & flows into Gulf of Khambat. It forms the famous Dhuandhar Falls near Jabalpur. Main tributaries: Hiran, Burhner, Banjar, Shar, Shakkar, Tawa, etc.

Tapti River (724 km): Rises from Betul distt in Maharashtra. Also known as twin or handmaid of Narmada. Main tributaries: Purna, Betul, Arunavati, Ganjal, etc.

Sabarmati River (416 km): Rises from Aravallis in Rajasthan.

Mahi River (560 km): Rises from Vindhyas in Maharashtra.

Luni River (450 km) : Rises from Aravallis. Also called Salt River. It is finally lost in the marshy grounds at the head of the Rann of Kuchchh.

Sharavati is a west flowing river of the Sahyadris. It forms the famous Jog or Gersoppa or Mahatma Gandhi Falls (289 m), which is the one of the highest waterfall in India.

Note:

⇒ (The largest man-made lake in India is Indira Sagar Lake, which is the reservoir on Indira Sagar Dam on Narmada Sardar Sarovar Project, Onkareshwar Project & Maheshwar Project in Gujarat-MP.)

⇒ Chilka Lake (Orissa) is the largest brackish water lake of India. Otherwise also, it is the largest lake of India.

⇒ Wular Lake (J & K) is the largest fresh water lake of India.

⇒ Dul Lake is also there in J & K. From Sambhar & Didwana Lake (Rajasthan), salt is produced. Other important lakes are Vembanad in Kerala & Kolleru & Pulicat in Andhra Pradesh.

The three important Gulfs in the Indian Territory are:

Gulf of Kuchch (west of Gujarat) : Region with highest potential of tidal energy generation

Gulf of Cambay or Gulf of Khambat (Gujarat) : Narmada, Tapi, Mahi & Sabarmati drain into it.

Gulf of Mannar (south east of Tamil Nadu) : Asia's first marine biosphere reserve.

IMPORTANT RIVER VALLEY PROJECTS IN INDIA

- **Bhakhra Nangal Project**: On Satluj in Punjab. Highest in India. Ht 226 m. Reservoir is called Gobind Sagar Lake
- **Mandi Project**: On Beas in H.P
- **Chambal Valley Project**: On Chambal in M.P & Rajasthan. 3 dams are there: Gandhi Sagar Dam, Rana Pratap Sagar Dam & Jawahar Sagar dam
- **Damodar Valley Project**: On Damodar in Bihar.
- **Hirakud**: On Mahanadi in Orissa. World's longest dam: 4801 m
- **Rihand** : On Son (river) in Mirzapur. Reservoir is called Govind Vallabh Pant reservoir
- **Mayurkashi Project** : On Mayurkashi in W.B
- **Kakrapar Project** : On Tapi in Gujarat
- **Nizamsagar Project**: On Manjra in A.P
- **Nagarjuna Sagar Project** : On Krishna in A.P
- **Shivasamudram Project**: On Cauvery in Karnataka
- **Tata Hydel Scheme** : On Bhima in Maharashtra
- **Sharavathi Hydel Project** On Jog Falls in Karnataka
- **Kundah & Periyar Project** In TN

- **Farakka Project**: On Ganga in W.B. Apart from power & irrigation it helps to remove silt for easy navigation
- **Ukai Project** : On Tapi in Gujarat
- **Salal Project** : On Chenab in J & K
- **Mata Tila Multipurpose Project**-On Betwa in U.P & M.P
- **Thein Project** : On Ravi, Punjab
- **Pong Dam** : On Beas, Punjab

Climate of INDIA

India has tropical monsoon type of climate.

CLIMATE SEASONS IN INDIA

In India, the year can be divided into four seasons, resulting from the monsoons which occur mainly due to the differential heating of land & movement of the sun's vertical rays.

The highest temperature experienced in South is in April while in North it is in May & June. **NORWESTERS 'Cherry Blossoms'** are there in Karnataka, beneficial to coffee plantation & **'Mango showers'** in elsewhere South India, which are beneficial to mango crops.

The south – west monsoon enters the country in two currents, one blowing over the Bay of Bengal & the other over the Arabian Sea. This monsoon causes rainfall over most of the country (except Tamil Nadu & Thar Desert area).

The Bay of Bengal branch after crossing the deltaic region enters the Khasi valley in Meghalaya & gets entrapped in it due to funnel shape of the region. It strikes Cherrapunji in a perpendicular direction causing heaviest rainfall in Mawsynram (Approx. 1400 cm). From mid-Sept to mid-Dec, the monsoon retreats. As the sun's vertical rays start shifting towards the Tropic of Capricorn, the low pressure area starts moving south & winds finally start blowing from land to sea. This is called **north-east monsoon**. The withdrawal of monsoon is a much more gradual process than its onset. It causes rainfall in Tamil Nadu as the winds pick some moisture from Bay of Bengal. This explains the phenomenon why Tamil Nadu remains dry when the entire country receives rain & why it gets rain when practically the entire country is dry.

CLIMATIC REGIONS OF INDIA

India can be divided into a number of climatic regions.

Tropical Rain Forests in India: Found in the west coastal plains, the Western Ghats & parts of Assam. Characterised by high temperatures throughout the year. Rainfall, though seasonal, is heavy- about 200 cm annually during May-November.

Tropical Savanna Climate : In most of the peninsula region except the semi-arid zone in the leeward side

of the Western Ghats. It is characterized by long dry weather throughout winter & early summer & high temperature (above 18.2 Deg.c); annual rainfall varies from 76 cm in the west to 150 cm in the east.

Tropical Semi-Arid Steppe Climate : It prevails in the rain-shadow belt running southward from Central Maharashtra to Tamil Nadu in the leeward side of the Western Ghats & the Cardamom Hills. It is characterized by low rainfall which varies from 38 cm to 80 cm, high temperature between 20 & 30.

Tropical & Subtropical Steppes : Large areas in Punjab, Haryana & Kutch region. Temperature varies from 12-35 Deg. c. The maximum temperature reaches up to 49 Deg.c. The annual rainfall, varying from 30.5-63.5 cm, is also highly erratic.

Tropical desert : This climate extends over the western parts of Banner, Jaisalmer & Bikaner districts of Rajasthan & parts of Kutch. It is characterized by scanty rainfall (30.5 cm), which is highly erratic. Rains are mostly in the form of cloud-burst. Mean monthly temperature is uniformly high (about 35c).

Humid Subtropical Climate with Dry Winters : This area includes south of the Himalayas, east of the tropical & subtropical steppes & north of tropical savannah. Winters are mild to severe while summers are extremely hot. The annual rainfall varies from 63.5 cm to more than 254 cm, most of it received during the south west monsoon season.

Mountain Climate : Such type of climate is seen in mountainous regions which rise above 6,000 m or more such as the Himalayas & the Karakoram Range.

Factors Affecting India's Climate

Latitude: The Indian landmass is equally divided by The Tropic of Cancer. Hence, half of India has tropical climate & another half has subtropical climate.

Altitude: While the average elevation in the coastal areas is about 30 metre, the average elevation in the north is about 6,000 metre. The Himalayas prevent the cold winds from Central Asia from entering the Indian subcontinent. Due to this, the subcontinent gets comparatively milder winters as compared to Central Asia.

Pressure & Winds: The Indian subcontinent lies in the region of north-easterly winds. These winds originate from the subtropical high-pressure belt of the northern hemisphere. After that, these winds blow towards south. They get deflected to the right due to the Coriolis force & then move towards the low pressure area near the equator.

Soils

1. Alluvial Soil:

In India it covers about 40 per cent of the total land area. It is very fertile & contributes the largest share of

agricultural wealth. Found mostly in the Northern Plains, starting from Punjab in the west to West Bengal & Assam in the east. The northern parts & the coastal areas of Gujarat also have some deposits of alluvial soil.

The fine particles of sand, silt & clay are called alluvium.

The alluvial soil can be divided into

- Old alluvium, called bangar
- New alluvium, called khadar.

Alluvial soil is most suited to irrigation & can produce bumper crops of rice, wheat, maize, sugarcane, tobacco, cotton, jute, oilseeds, etc.

2. Black Soil:

The black soil is locally called regur, a word derived from Telugu word 'reguda'.

It is also called the Black Cotton Soil, as cotton is the most important crop grown in this soil.

The black soil is mostly found in the Deccan Trap, covering large areas of Maharashtra, Gujarat & western Madhya Pradesh. The black soil is well-known for its capacity to hold moisture.

Black soil is widely used for producing cotton, wheat, linseed, millets, tobacco & oilseeds.

3. Red Soil:

The red soil occupies about 10 per cent area of India, mostly in the south-eastern part of the Peninsular India.

The red soil is found in Tamil Nadu, parts of Karnataka, southeast Maharashtra, eastern parts of Andhra Pradesh, Madhya Pradesh, Orissa & Jharkhand.

The red colour is due to the high percentage of iron contents.

This soil is rich in potash, but poor in lime, phosphate, nitrogen & humus.

Red soils can give excellent yields of cotton, wheat, rice, pulses, millets, tobacco, oilseeds, etc.

4. Laterite Soil:

The word 'laterite' has been derived from a Latin word meaning 'brick'.

It is mainly found on the summits of the Western Ghats, Eastern Ghats, Rajmahal Hills, Vindhyas, Satpuras & Malwa plateau.

It is well-developed in southern Maharashtra, & parts of Orissa, West Bengal, Karnataka, Andhra Pradesh, Kerala, Bihar, Assam & Meghalaya.

Such climatic conditions promote leaching of soil. Leaching is a process in which heavy rains wash away the fertile part of the soil.

The laterite soil is red in colour & composed of little clay & much gravel of red sandstones.

Due to intensive leaching, the laterite soil generally lacks fertility & is of low value for crop production. But when manured & timely irrigated, the soil is suitable for producing plantation crops like tea, coffee, rubber, coconut, arecanut, etc.

5. **Mountain Soil:**

The mountain soil is generally found on the hill slopes covered with forests.

This soil is also found in the Western & Eastern Ghats & in some parts of the Peninsular India.

This soil is rich in humus, but poor in potash, phosphorus & lime.

In the Himalayan region wheat, maize, barley & temperate fruits are grown on this soil.

This soil is especially suitable for producing plantation crops, such as tea, coffee, spices & tropical fruits in Karnataka, Tamil Nadu & Kerala.

6. **Desert Soil:**

The desert soil is found mostly in the arid & semi-arid regions, receiving less than 50 cm of annual rainfall.

Such regions are mostly found in Rajasthan & the adjoining areas of Haryana & Punjab.

The Rann of Kachchh in Gujarat is an extension of this region.

The desert soil has sand (90 to 95 per cent) & clay (5 to 10 per cent). Desert soil can produce a variety of crops, such as wheat, millets, barley, maize, pulses, cotton, etc.

NATURAL VEGETATION IN INDIA

Tropical Wet Evergreen Forests—In areas over 250 cm rainfall. In Western Ghats, hilly areas in N.E. India & Andaman & Nicobar Islands. Trees are rosewood, shisham, ebony, ironwood, etc.

Tropical Moist Deciduous Forests—In areas having rainfall between 100 – 200 cm. In peninsular region & along the foothills of Himalayas in Shivaliks, Bhabhar & Tarai. The trees of these forests drop their leaves for about 6-8 weeks during the spring & early summer when sufficient moisture isn't available.

Trees are teak, sal, bamboo, sandalwood, rosewood, etc.

Thorn Forests

In areas having rainfall between 25 & 80 cm. In arid regions of Rajasthan, Punjab, Haryana & Gujarat. Trees are palm, acacia, etc.

HILL FORESTS---In hills of Southern India & the Himalayas.

The type of trees depends upon the height of the mountain: Sal & bamboo below 1000 m; oaks, chestnuts & other fruit trees, & chir forests between 1000 & 2000 m; pine, deodar, silver fern & spruce between 1600 & 3300 m; above 3600 m alpine forests

with trees like silver firs, pines, birches, etc. Alpine forests give way to Alpine grasslands & scrubs as we move up further.

Tidal or Mangrove Forests

Also known as Littoral or Swamp Forests. Occur along the sea coast & in the estuaries of rivers, especially in Sunderbans & the Andamans. Most important tree is Sundari. It provides hard & durable timber which is used for construction & building purposes as well as for making boats.

IMPORTANT POINTS

Madhya Pradesh has the largest area under forests. As per percentage of forest area to total area, first is Andaman & Nicobar Islands, followed by Mizoram. In Mangrove forests, West Bengal holds the first position, followed by Gujarat & Andaman & Nicobar Islands. The lowest forest percentage is in Haryana & Punjab, because of the extensive agriculture.

BIOSPHERE RESERVES IN INDIA

In India, the first biosphere reserve – Nilgiri biosphere reserve – came into being in 1986. So far, 18 biosphere reserves have been set up in the country.

NATIONAL PARKS & WILD LIFE SANCTUARIES

There are 103 National Parks & 543 Wildlife Sanctuaries in India.

Madhya Pradesh & Andaman & Nicobar Islands have the maximum number of National Parks (9 each) while Andaman & Nicobar Islands has 96 & Maharashtra has 42 Wildlife Sanctuaries (maximum in India).

CROPPING SEASONS IN INDIA

Kharif Crops of India

Sown in summers between May & July, & harvested after the rains, in September & October.

Eg: Rice, Jowar, Bajra, Maize, Cotton, Jute, Sugarcane, Tobacco, Groundnut, Pulses, etc.

Rabi Crops of India

Sown at the beginning of winter & harvested before the onset of the summer season, between Feb & April.

Eg: Wheat, barley, oilseeds, gram, potatoes, etc.

Zaid Crops

They are raised between April & June.

E.g. : Melon, watermelon, cucumber, toris, leafy & other vegetables.

Cash Crops of India (Commercial Crops)

Grown mainly for the market, only a small portion of the product is consumed by the farmers themselves (cotton, sugarcane etc.)

CASH CROPS

Sugarcane	In UP, Maharashtra, Karnataka
Cotton	In Maharashtra, Gujarat, Andhra Pradesh
Jute & Mesta	In WB, Bihar, Asom
Tea	In Asom, West Bengal, Himachal Pradesh
Coffee	In Kamalaka, Kerala, Tamil Nadu
Rubber	In Kerala, Tamil Nadu, Karnataka
Silk	In Karnataka, Jammu & Kashmir, Andhra Pradesh. In India all 4 varieties of silk are available: Mulberry, tussar, eri & muga. Mulberry is the main variety, while tussar is mainly found in Bihar.
Tobacco	In Gujarat, Andhra Pradesh, Karnataka

Jhum

Shifting type of cultivation practiced in the hill slopes of Asom, Arunachal Pradesh, Mizoram & Nagaland. In this, the trees are felled & set on fire. The ash of the burnt trees & the other vegetation adds to the fertility of soil. This land is used for 2-3 years till the soil gets exhausted & the jhum is abandoned.

RAILWAYS IN INDIA

Indian railway system is the largest in Asia & the fourth largest in the world.

- It is the biggest departmental public undertaking in the country.
- The first train ran in India between Bombay & Thane, a stretch of 34 km. on April 16th 1853.
- The second train ran between Howrah & Hooghly in 1854.
- The headquarters of Indian Railway is in New Delhi.
- The first electric train in India was 'Deccan Queen'.
- It was introduced in 1929 between Bombay & Poona.
- Indian Railways has the second biggest electrified system in the world after Russia.
- The fastest train in India is the Shatabdi Express whose maximum speed is 140 km/hr.
- The total route covered is approx 63,000 km.
- The total number of railway stations in India is 7,100.

- The longest railway platforms are: Gorakhpur railway station, Uttar Pradesh, India: 1,366.33 m (4,483 ft) (longest in the world).
- Mumbai is the destination where maximum number of trains in India head for.
- The first Metro Rail was introduced in Kolkata (West Bengal) on October 24, 1984. The two stations connected were Dumdum & Belgachhia.

Konkan Railways India: It is a project to shorten the distance between Maharashtra, Goa & Karnataka. The total route length is 786 km between Apta (Maharashtra) & Mangalore (Karnataka).

Water Transport in India

The total length of navigable waterways in Indian comprising rivers, canals, backwaters, etc, is 14,500 km out of which 3700 km is navigable by mechanised boats.

The government has recognised the following National Waterways of India:

- NW 1: Allahabad to Haldia – 1,629 kms
- NW 2: Sadia to Dhubari (on Brahmaputra river) – 819 kms
- NW 3: Kollam to Kottapuram – 186 kms
- NW 4: Kakinada to Marakkanam (Along Godawari & Krishna river) – 1,100 kms

Ports in India

The Waterways Authority in India divides Indian ports into three categories, major, minor & intermediate. India has about 190 ports in all, with 12 major & the rest intermediate & minor.

The 12 Major Ports are:

Port	State
Kolkata (including Haldia)	West Bengal
Paradip	Orissa
Vishakhapatnam	Andhra Pradesh
Chennai	Tamil Nadu
Ennore	Tamil Nadu
Tuticorin	Tamil Nadu
Cochin	Kerala
New Mangalore	Karnataka
Mormugao	Goa
Jawaharlal Nehru	Maharashtra
Mumbai	Maharashtra
Kandla	Gujarat

BOUNDRY LINES

LINES

Durand Line	Pakistan & Afghanistan
MacMohan	India & China

Line	
Radcliffe Line	India & Pakistan
Maginot Line	France & Germany
Oder Niesse Line	Germany & Poland
Hindenberg Line	Poland & Germany (at the time of First World War)
38th Parallel	North & South Korea
49th Parallel	USA & Canada

MINERALS IN INDIA

1. IRON :

India has huge deposits of iron-ore in Bihar, Orissa, Madhya Pradesh, Karnataka & Maharashtra. Iron-ore is found in the mines at Singhbhum in Bihar & Mayurbhanj in Orissa. Big steel plants at Jamshedpur, Bhilai, Bokaro, Durgapur, Rourkela & Bhadravati.

2. COAL :

It is known as 'black diamond'. Products like nylon, chemicals, dyes, drugs & perfumes are obtained from the distillation of coal. Coal is found in Bihar, West Bengal, Damodar Valley, Orissa, Andhra Pradesh & Madhya Pradesh. Jharia in Bihar & Raniganj in West Bengal are the largest coal mines in India. Other coal mines are located at Suhagpur (Madhya Pradesh) Dhanbad (Bihar) Neyveli (Tamil Nadu) & Singarani (Andhra Pradesh).

3. PETROLEUM :

Petroleum is known as 'black gold'. Petroleum is found at Digboi in Assam, Ankaieswar & Kalol in Gujarat & Bombay High off the shore of Bombay.

4. MANGANESE :

Manganese is used in the manufacture of steel. India is one of the largest producers of manganese in the world. It is found in Orissa, Karnataka, Madhya Pradesh & Maharashtra.

5. MICA :

India is the largest producer of mica in the world. Its huge deposits are found in Gaya, Monghyr & Hazaribagh districts of Bihar. Mica is also found in large quantities in Andhra Pradesh & Rajasthan. A large quantity of mica is exported to other countries.

6. ALUMINIUM :

It is a light but hard metal. The ore from which aluminum is produced is known as bauxite. Huge deposits of bauxite are found in Bihar, Orissa, Madhya Pradesh, Andhra Pradesh, Karnataka, Tamil Nadu & Maharashtra.

7. COPPER :

It is a good conductor of electricity. It alloys with zinc to form brass & with tin to form bronze. It occurs in small quantities in India.

It is found at Khetri in Rajasthan. Some copper has been found in Andhra Pradesh, Uttar Pradesh & Tamil Nadu.

8. GOLD :

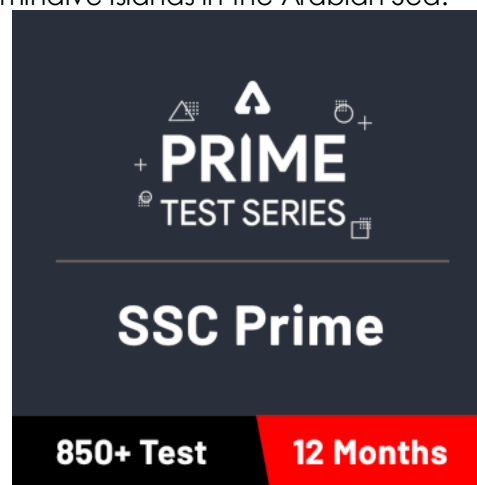
Gold is produced from the mines at Kolor & Hutti in Karnataka & Anantapuram in Andhra Pradesh.

9. DIAMOND :

Diamonds are found in the mines at Panno in Madhya Pradesh

Area Geography & Boundaries OF INDIA

1. Geography Area of India: 32,87,263 sq. km. Accounts for 2.4% of the total world area & roughly 16% of the world population.
2. Mainland India has a coastline of 6,100 km. Including the Lakshadweep & Andaman & Nicobar Islands, the coastline measures about 7516.6 km.
3. In India, of the total land mass:
 - a. Plains Geography: 43.3%
 - b. Plateaus: 27.7% • Hills: 18.6%
 - c. Mountains Geography: 10.7%
4. In the South, on the eastern side, the Gulf of Mannar & the Palk Strait separate India from Sri Lanka.
5. Total land neighbours: 7 (Pakistan, Afghanistan, China, Nepal, Bhutan, Bangladesh & Myanmar).
6. India's Islands include the Andaman & Nicobar Islands in Bay of Bengal & Lakshadweep, Minicoy & Amindive Islands in the Arabian Sea.



INDIA FACTS

- Highest Award-Bharat Ratna
- Highest Gallantry Award-Param Vir Chakra
- Longest Tributary river of India-Yamuna
- Largest Lake-Wular Lake, Kashmir (Fresh Water)

- Largest Lake (Saline Water)-Chilka Lake, Orissa
- Largest Man-Made Lake-Govind Vallabh Pant Sagar (Rihand Dam)
- Highest Lake-Devtal Lake, Gadhwal (Uttarakhand)
- Highest Peak-Karkoram-2 of K-2(8,611 meters) (India)
- Largest Populated City-Mumbai
- Largest State(Area)-Rajasthan
- Largest State(Population)-Uttar Pradesh
- Highest rainfall-Cherrapunji (426 inches per annum) Mawsynrane
- State wise largest area under forest-Madhya Pradesh
- Largest Delta-Sunderbans Delta
- Longest River Bridge-Mahatma Gandhi Setu, Patna
- Biggest Cave temple-Ellora
- Longest Road-Grand Trunk Road
- Longest Canal-Indira Gandhi Canal or Rajasthan Canal (Rajasthan)
- Largest Museum-India Museum at Kolkata
- Longest Dam-Hirakud Dam (Orissa)
- Highest Dam-Tehri Dam (260 meters , 850 ft)
- Largest District-Kutch district (Area wise)
- Longest Highway NH-44 (NH-7) which turns from Varanasi to Kanyakumari
- Smallest State (Population)-Sikkim
- Smallest State (Area)-Goa
- Largest State (Area)-Rajasthan
- Largest State (Population)-Uttar Pradesh
- Largest Cave Temple-Kailash Temple, Ellora (Maharastra)
- Largest Port-Mumbai
- Largest Church-Saint Cathedral (Goa)
- Longest Beach-Marina Beach, Chennai
- Highest Airport-Leh (Laddakh)
- Largest River Island-Majuli (Brahmaputra River, Asom)

Tectonic Plate Theory

The theory describes the large scale motion of the earth's lithosphere. This theory is based on continental drift which explains the formation of various continents over millions of years; as we see them today.

Plate Boundaries:- Based on the relative movement between two tectonic plates, there are three types of plate boundaries. They are as follows:

Convergent Boundary: In this case, the two adjacent tectonic plates move towards each other.

Divergent Boundary: In this case, the two adjacent plates move away from each other.

Transform Boundary: In this case, the two adjacent plates move along their borders.

Formation of India

The Indian Peninsula drifted towards the north & finally collided with the much larger Eurasian Plate. As a result of this collision, the sedimentary rocks which were accumulated in the geosynclines (known as Tethys) got folded & formed the mountain systems of the West Asia & Himalaya. Due to the uplift of the Himalayas in the Tethys Sea, the northern flank of the Indian Peninsula got subsided & formed a large basin. That basin was filled with sediments from the rivers which came from the mountains in the north & from the peninsula in the south. Thus, an extensive flat land of alluvial soil was formed which is known as the northern plains of India.

Major Mountain Ranges of the World

- ✓ **Andes** -South America
- ✓ **Himalayas**-Karakoram-Hindukush -South Central Asia
- ✓ **Rockies** -North America
- ✓ **Great Dividing Range**-East Australia
- ✓ **Western Ghats**-Western India-
- ✓ **Caucasus Europe**-Asia
- ✓ **Alaska** -USA
- ✓ **Alps** -Europe
- ✓ **Apennines** -Europe
- ✓ **Ural** -Asia
- ✓ **Pennines** -Europe
- ✓ **Pyrenees**-Europe-
- ✓ **Appalachian** -North America

HIMALAYAS

- **Punjab Himalaya**-Between Indus & Satluj
- **Kumaon Himalaya**-Between Satluj & Kali
- **Nepal Himalaya**-Between Kali & Tista
- **Assam Himalaya**-Between Tista & Dihang (Brahmaputra)

IMPORTANT LAGOONS & LAKES

- **VEMBNAD LAKE**-Kerala -Large sized lagoons
- **KAYALS**-Kerala-Popularly called back water in Kerala. Peaty soils of backwaters are called Kari in Kerala.
- **CHILKA LAKE**-Orissa--south west of the Mahanadi Delta.
- **WULAR LAKE**:Jammu & Kashmir-Largest fresh water lake of India
- **KOLLERU LAKE**: Andhra Pradesh
- **PULICAT LAKE**: Andhra Pradesh
- **JAISAMAND LAKE**: Rajasthan-Largest fresh water lake of Rajasthan
- **NAKKI LAKE**:Rajasthan-small natural lake near Mt. Abu surrounded by hills important as tourist place.
- **LOKTAK LAKE**: Manipur

SALINE WATER LAKES:

SAMBHAR LAKE-Rajasthan-Largest Lake of Rajasthan lies on the border of Jaipur & Nagaur District.

DEEDWANA LAKE: Rajasthan

Green Revolution

- To increase yield per hectare government of India introduced a programme called Green Revolution.
- The Green Revolution (first) was launched in 1967-68.
- Father of Green Revolution - Dr. Norman Borlaug
- Father of Green Revolution in India - Dr. M.S. Swaminathan
- Green Revolution focused the development of high-yielding varieties of cereal grains, expansion of irrigation infrastructure, & distribution of hybridized seeds, synthetic fertilizers, & pesticides to farmers.

White Revolution

- The White Revolution in the country has been achieved by means of Operation Flood. It was carried out in three phases.
- Operation Flood I 1970 - 1981
- Operation Flood II ... 1981 - 1985
- Operation Flood III ... 1985 - 1996.
- White revolution launched to increase the quality & quantity of milk & dairy products.
- The Father of the White Revolution in India is Dr. Varghese Kurien. He is also known as **Milkman of India**.

REMEMBER

- **National animal**-Royal Bengal Tiger
- **National aquatic animal**-Gangetic Dolphin
- **National bird**-Indian Peacock
- **National tree**-Banyan tree

Continents of the World

World Continents

- Asia, Africa, North America, South America, Europe, Australia & Antarctica are the seven continents of the world.
- These seven continents were believed to be part of Pangaea which was a single landmass around 250 million years ago.
- Due to the tectonic movement, the landmass broke up & the component continents separated & moved away to its present position. All these took around 1 million years to complete.

ASIA

- 1) Area: 44,485,900 sq Kms
- 2) Straits Strait of Malacca, Bering Strait.
- 3) **Mountains**

Pamir Knot, Himalayas, Karakoram, Kunlun, Tien Shan, Altai, Hindu Kush, Elburz, Pontic, Sulaiman, Zagros, Taurus, Urals, Yablonovoi, Stanovoi.

- 4) Highest Point – Mt. Everest (8,848 m)
- 5) Lowest Point Dead Sea (396.8 m)
- 6) **Islands**---Kurile, Sakhalin, Honshu, Hokkaido, Taiwan, Borneo, Sumatra, Java, Celebes, New Guinea, Philippines, Sri Lanka, Bahrain, Cyprus.
- 7) **Rivers**-Euphrates, Tigris, Indus, Ganga, Brahmaputra, Hwang-Ho, Yang-tse, Si-kiang, Amur, Lena-Yenisei, Ob, Irrawady, Salween, Mekong.
- 8) **Plateaus**--Anatolia Plateau, Plateau of Iran, Plateau of Arabia, Plateau Of Tibet, Tarim Basin, Plateau of Mongolia, Plateau of Yunnan, Deccan Plateau.
- 9) **Peninsulas**---Kamchatka Peninsula, Peninsula of Korea, Peninsula of Indo-China, Malay Peninsula, Indian Peninsula, Arabian Peninsula.
- 10) Deserts-Arab, Thar, Ladakh

Africa

- 1 Area 30,259,680 sq Kms
- 2 Straits--Strait of Bab-el-Mandeb, Straits of Gibraltar
- 3 Mountains-- Atlas, Drakensberg, Kilimanjaro
- 4 Highest Point- Kilimanjaro (5,894 m)
- 5 Lowest Point-Lake Assai (-156.1 m.)
- 6 Islands--Madagascar, Cape Verde Islands, The Comoros, Mauritius, Seychelles
- 7 Plateaus--The whole continent is a plateau
- 8 Deserts-- Kalahari, Sahara Namib

North America

- 1 Area-- 24,235,280 sq Kms
- 2 Straits-- Bering Strait
- 3 Mountains-- Rockies, Appalachain, Brooks, Kuskokwim, Alaska Range, Cascade Range, Coastal Range, Sierra Nevada, Sierra Madre
- 4 Highest Point-- Mckinley (6,194 m.)
- 5 Lowest Point--Death Valley(-85.9 m)
- 6 Islands--Greenland, Baffin, Victoria, Newfoundland, Cuba, Jamaica, Haiti
- 7 Rivers--Mississippi, Missouri, St. Lawrence, Mackenzie, Colorado, Hudson, Potomac, Ohio
- 8 Plateaus-- Columbia Plateau, Colorado Plateau, Mexican Plateau, Canadian Shield.
- 9 Deserts--Chihuahuan, Colorado, Mojave, Sonoran

South America

- 1 Area-- 17,820,770 sq Kms
- 2 Straits-- Straits of Magellan
- 3 Mountains-- Andes
- 4 Highest Point- Aconcagua (6,960 m)
- 5 Lowest-Point Valdes Penin (-39.9 m)
- 6 Islands-Galapagos, Falkland, Tierra del Fuego.
- 7 Rivers--Amazon, Orinoco, Paraguay, Parana, Uruguay
- 8 Plateaus-- Plateau of Bolivia, Plateau of Equador

9 Deserts-- Atacama, Pantagonia

Europe

- 1 Area -- 10,530,750 sq Kms
- 2 Straits-- Straits of Gibraltar
- 3 Mountains-- Alps, Pyrenes, Appenines, Dinaric Alps, Carpathians, Transylvanian Mountains, Balkans, Caucasus, Urals
- 4 Highest Point-- Elbrus (5,663 M.)
- 5 Lowest Point--Caspian Sea (-28.0 m)
- 6 Islands--British Isles, Iceland, Sardinia, Sicily, Crete.
- 7 Rivers--Volga, Danube, Rhine, Po, Dnieper, Don, Vistula, Elbe, Oder, Seine, Loire, Garrone, Douro, Tagus, Ural
- 8 Plateaus--Plateau of Bohemia, Plateau of Spain, Central Massif

Australia

- 1 Area-- 7,830,682 sq Kms
- 2 Straits-- Bass Strait
- 3 Mountains-- Great Dividing Range
- 4 Highest Point-- Kosclusko (2,228 m.)
- 5 Lowest Point-- Lake Eyre (-15.8 m.)
- 6 Islands-- Tasmania
- 7 Plateaus-- Western Plateau
- 8 Deserts-- Gibson Desert, Great Sandy Desert, Great Victoria Desert, Simpson Desert.

EUROPE CONTINENT

1) Europe ranks sixth. Its boundaries are the Arctic Ocean in the west & the Mediterranean Sea in the South. In the east, it is separated from Asia by the Ural Mountains, the Caucasus mountains & the Caspian Sea.

- Reykjavik is also known as **The Smoking Bay**.
- Denmark is the smallest country of Scandinavia.
- Greenland the world's largest island & the Faroe islands also belong to Denmark.
- Copenhagen the capital of Denmark is known as **the key to the Baltic**.
- Finland is known as the **Land of Forests & Lakes**.
- The capital & the largest city of Finland, Helsinki is known as the **White city of the North**.
- Stockholm, the capital of Sweden is known as **Beauty on the Sea**.
- Milan (Italy) is known as the **Manchester of Italy**.
- Rome is known as **City of Seven Hills**
- Vatican city is the smallest Sovereign & an independent state of the world, which is completely surrounded by Italy.

Highest point - Mt. Elbrus, Russia

Most Southerly point - Gavdos, Greece

Largest Lake - L. Ladoga, Russia

Largest river - Volga

- Russia touches fourteen other countries & crosses eight time zones.

- Moscow is a part of five seas the Baltic Sea, Lake Ladoga, the Arctic Ocean, the Black sea & the Caspian Sea.
- Mt. Blanc is the highest peak of Alps (in France)
- Important mountain ranges of Europe include Alps, Pyrenees, the Carpathian & the Caucasus.
- The highest mountain peak of Europe, Mt. Elbrus is the Caucasus.
- In the South - East part of Europe, there is an extensive grassland called the Steppes.
- Rhine is the busiest inland waterway of Europe.
- British Isles is separated from the mainland of Europe by the English Channel.
- The Pyrenees mountains separate France from Spain.
- The Ruhr (Germany) is the biggest & the richest coal producing area of Europe.

NORTH AMERICA

- Central American countries are known as the **Banana Republic**.
- Hamilton is known as **the Pittsburgh of Canada**.
- Halifax, the capital of Nova Scotia is an important ice free port in Canada.
- Vancouver, the largest city of British Columbia, Canada situated near the mouth of Fraser river.
- 'Birmingham of Canada " - Hamilton.
- Worlds largest oil refinery located on Sarnia, Canada
- Smallest state of USA : Rhode Island
- Largest state of USA : Alaska
- Largest port in Pacific, also known as **City of Golden Gate**: San Francisco, USA

Highest point - North America

Mt. Mc Kinley, Alaska, USA

Lowest Point

Death valley, California

Largest lake

L. Superior, Canada/ USA

- Largest port in USA, situated on the bank of Hudson river - New York City.
- Most populated city of USA also known as **city of sky scrapers**- New York City.
- Mauna Kea, the highest peak in Hawai is active as a volcano.
- Capital of Hawai, Honolulu is known as **the cross roads of Pacific**.
- St. Lawrence is the busiest inland waterway in North America.
- The Grand Canyon of Colorado river is the largest of its kind in the world.
- The Grasslands found in the interior plains of North America are known as the **Prairies**.
- **Lake Superior** : World's second largest lake after Caspian Sea.

- **Lake Michigan** : Only Great lake that is entirely within the United States.
- World's leading coffee producer : Brazil
- Largest city of South America : Sao Paulo, Brazil
- Driest place in the world : Arica, Chile
- World's largest copper town : Chiquicamata, Chile
- **Pearl of the Pacific**: Guayaquil, Ecuador
- World's highest water fall : Angel falls, Venezuela
- Strait between South America & Antarctica : Drake Passage.
- Highest active volcano in the world : Mt. Ojas del Salado, Argentina
- Second highest mountain systems in the world next to the Himalayas : Andes
- Amazon basin is the home of the rubber tree.

AUSTRALIA

- Australia is the smallest continent.
- It lies entirely in the Southern Hemisphere.
- Australia is the only country in the world that covers the entire continent.
- It is also known as **the Island Continent**.
- Tropic of Capricorn passes almost through the middle of the continent.
- Australia was discovered by captain James Cook, an English Seaman, in 1770.
- It is surrounded by Timor Sea in the northwest, Arafura sea & Gulf of Carpentaria in the north, Great Barrier Reef in the north east & Great Australian Bight in the South.

Highest point

Mt. Kosciusko, Australia

Lowest point : Lake Eyre, Australia

Largest Lake : Lake Eyre

- The Murray & the Darling are the major rivers of Australia.
- Tropical grasslands are called Savannas & the temperate grasslands found in the
- Murray Darling basin are called Downs.
- Sydney is the largest city & important sea port of Australia.
- Tasman sea separates Australia from New Zealand.

New Zealand is divided into two islands: The Northern Island & the Southern Island. Cook strait separates the two islands.

Wellington the Capital lies in the Northern Island.

ANTARCTICA

- Antarctica is Earth's southernmost continent, underlying the South Pole.
- It is situated in the Antarctica region of the southern hemisphere, almost entirely south of the Antarctic Circle, & is surrounded by the Southern Ocean.

Highest point : Vinson Massif, 4,897 m

Lowest point : Bentley Subglacial Trench, -2,555 m

Longest river : Onyx River, 25 km

FACTS

Largest total area ... Russia, 17,098,242 km²

Largest land area... Russia, 17,075,200 km²

Largest water area... Canada, 891,163 km²

Longest coastline ... Canada, 243,792 km

Highest coastline to area ratio ... Micronesia, 8,706.553 m/km²

Most countries bordered: ...Russia & China

Largest forest area ... Russia, 8,087,900 km²

Hottest, Coldest, Driest, Wettest

Hottest Place Dalol, Denakil Depression, Ethiopia, annual average temperature (93.2°F, 34°C)

Coldest Place Plateau Station, Antarctica, annual average temperature (-56.7°C)

Wettest Place Mawsynram, Assam, India, annual average rainfall (11,873 mm, 467.4")

Driest Place Atacama Desert, Chile, imperceptible rainfall on a yearly basis.

Important mountain ranges

Andes --- South America

Rockies --- North America

Atlas --- Africa

Kilimancharo --- Africa

Appalachian --- America

Ural --- Europe

Alps --- Europe

Karpathyan --- Europe

Mount Eribus --- Antarctica

Himalayam --- Asia

VOLCANOES

Important volcanoes

Vezuvius --- Italy

Etna --- Italy

Stromboli --- Italy

Barren --- India (Andaman Nicobar)

Kilimancharo --- Tanzania

Krakathove --- Indonesia

Pina thubo --- Philippines

- Most of the volcanoes found near Pacific Ocean
- Ring of fire - Pacific
- Lighthouse of the Pacific - Ezalko
- Lighthouse of the Mediterranean - Stromboli

DESERTS

Fozil desert --- Kalahari

Little Sahara --- Australia

Death desert --- Thakkala Makkan

Painted desert --- North America

Coldest desert --- Gobi

Warmest desert --- Sahara
Driest desert--- Atacama
Great Indian desert --- Thar

Important Deserts

Roob Asavali	-- Asia
Atacama	-- South America
Sahara	-- Africa
Kalahari	-- Africa
Nameeb	--Namibia
Great Sandy	--Australia
Great Victoria	-- Australia
Takla Makan	--China
Sahel	--China
Thar	-- India

ISLANDS

Island of the volcanoes	-- Iceland
Island of the tortoise	-- Galapagos
Island of the Sailors	-- Samova
Island of the inspiration	-- Tasmania
Pearl of the Antilles	-- Cuba
Friendly island	---- Tonga
Spring island	----Jamaica
Birthplace of Napoleon	-- Corica Island
Biggest island	--Greenland
Smallest island nation	-- Navru
Folkland islands, Canari islands, Kozhikkka, St. Helena, Bahamas Burmuda islands situated in Atlantic Ocean.	

Medieval History Capsule For SSC & Railway Exams 2019

THE CHALUKYAS

1. Pulakesin I (543-566) was the first independent ruler of Badami with Vatapi in Bijapur as his capital.
2. Kirthivarma I (566-596) succeeded him at the throne. When he died, the heir to the throne, Prince Pulakesin II, was just a baby & so the king's brother, Mangalesha (597-610), was crowned the caretaker ruler. Over the years, he made many unsuccessful attempts to kill the prince but was ultimately killed himself by the prince & his friends.
3. Pulakesin II (610-642), the son of Pulakesin I, was a contemporary of Harshavardhana & the most famous of the Chalukyan kings. His reign is remembered as the greatest period in the history of Karnataka. He defeated Harshavardhana on the banks of the Narmada.
4. After conquering the Kosalas & the Kalingas, & eastern Chalukyan dynasty was inaugurated by his (Pulakeshin II) brother Kubja Vishnuvardana.
5. By 631, the Chalukyan empire extended from sea to sea. However, Pulkeshin II was defeated & probably killed in 642, when the Pallavas under Narsimhavarma I attack on their capital & captured the chalukyan capital at Badami.
6. The Chalukyas rose to power once again under the leadership of Vikramaditya I (655-681), who defeated his contemporary Pandya, Pallava, Cholas & Kerala rulers to establish the supremacy of the Chalukyan empire in the region.
7. Vikramaditya II (733-745) defeated the Pallava king Nandivarma II to capture a major portion of the Pallava kingdom.

8. Vikramaditya II's son, Kirtivarma II (745), was disposed by the Rastrakuta ruler, Dhantidurga, who established the Rashtrakuta dynasty.

THE CHOLAS (9TH TO 13TH CENTURY)

1. The Chola dynasty was one of the most popular dynasties of south India which ruled over Tamil Nadu & parts of Karnataka with Tanjore as its capital.
2. Early Chola rulers were the Karikala Cholas who ruled in the 2nd century.
3. In 850, Vijayalaya captured Tanjore during the Pandya-Pallava wars. To commemorate his accession, he built a temple at Tanjore. The giant statue of Gomateswara at Shravanbelagola was also built during this period.
4. Vijayalaya's son Aditya I (871-901) succeeded him to throne.
5. It was Rajaraja I (985-1014) during which the CHOLAS reached at its zenith. He snatched back lost territories from the Rashtrakutas & become the most powerful of the Chola rulers. Rajaraja' is also famous for the beautiful shiva temple which he constructed at Thanjavur (TN). It is called Rajarajeswara after his name.
6. Rajendra Chola (1014-1044), son of Rajaraja I, was an important ruler of this dynasty who conquered Orissa, Bengal, Burma & the Andaman & Nicobar Island. The Cholas dynasty was at its zenith also during his reign. He also conquered Sri Lanka.
7. Kulottunga I (1070-1122) was another significant Chola ruler. Kulottunga I united the two kingdom of the eastern Chalukyas of Vengi & the Cholas of Thanjavur. After a long reign of about half a century, Kulottunga I passed away sometime in

1122 & was succeeded by his son, Vikrama Chola, surnamed Tyagasamudra.

9. The last ruler of the Chola Dynasty was Rajendra III (1246-79). He was a weak ruler who surrendered to the pandyas. Later, Malik Kafur invaded this Tamil state in 1310 & extinguished the Chola empire.

THE GHAZNAVIS

Mahmud of Ghazni (997-1030)

- a) He was also known as "But-Shikan" (destroyer of the image) because of seventeen plundering expeditions between 1000 AD & 1027 AD in India.
- b) Annexing Punjab as his eastern province, he claimed to have come here with twin objectives of spreading Islam in India, & enriching himself by taking away wealth from India.
- c) In 1025, he attacked & raided the most celebrated Hindu temple of Somnath, Gujarat.
- d) Beruni who wrote Kitab-ul Hind, & Firdausi, who wrote Shah Namah, were the court Historians of Mahmud Ghazni & give a good account of the polity & society on the eve of Mahmood's invasion. From 1010 to 1026, the invasions were thus directed toward the temple-towns of Thaneshwar, Mathura, Kannauj & finally Somnath.

Muhammad Ghorī (Shahabuddin Muhammad)

In AD 1173, Shahabuddin Muhammad (AD 1173-1206) also called Muhammad of Ghorī ascended the throne of Ghazni. The Ghorīs were not strong enough to meet the growing power & strength of the Khwarizmi Empire; they realized that they could gain nothing in Central Asia.

Conquest of Punjab & Sind

- a) Muhammad Ghorī led his first expedition in AD 1175. He marched against Multan & freed it from its ruler. In the same campaign he captured Uchh from the Bhatti Rajputs.
- b) Three years later in AD 1178 he again marched to conquer Gujarat but the Chalukya ruler of Gujarat, Bhima II defeated him at the battle of Anhilwara. But by AD 1190 having secured Multan, Sind & Punjab, Muhammad Ghorī paved the way for a further thrust into the Gangetic Doab.

Delhi Sultanate

After the assassination of Muhammad Ghorī, **Qutubuddin Aibek got the control over Delhi. Sultanate period can be divided into 5 distinct periods viz.**

1. The Slave Dynasty (1206-90)
2. The Khilji Dynasty (1290-1320)
3. The Tughlaq Dynasty (1320-1414)

4. The Sayyid Dynasty (1414-51)
5. The Lodhi Dynasty (1451-1526).

The Slave Dynasty

Qutubuddin Aibak (1206-10)

- A Turkish slave by origin, he was purchased by Mohammad Ghorī who later made him his Governor.
- After the death of Ghorī, Aibak became the master of Hindustan & founded the Slave Dynasty in 1206.
- The capital during his reign was not Delhi but **Lahore**.
- For his generosity, he was given the title of **Lakh Bakhsh** (giver of lakhs).
- He died in 1210 while playing Chaugan or Polo.
- He constructed two mosques i.e. Quwat-ul-Islam at Delhi & Adhai din ka Jhopra at Ajmer.
- He also began the construction of Qutub Minar, in the honour of famous Sufi Saint Khwaja Qutubuddin Bakhtiyar Kaki.
- Aibak was great patron of learning & patronized writers like Hasan-un-Nizami, author of 'Taj-ul- Massir' & Fakhruddin, author of 'Tarikh-i-Mubarak Shahi'.

Aram Shah (1210)

- He was the son of Aibak, who was defeated by Iltutmish in the battle of Jud.

Shamsuddin Iltutmish (1210-36)

- He was a slave of Qutubuddin Aibak of Mamluk tribe & occupied the throne of Delhi in 1211.
- Iltutmish began his career as Sar-e-Jandhar or royal bodyguard.
- He was a very capable ruler & is regarded as the 'real founder of the Delhi Sultanate'.
- He made Delhi the capital in place of Lahore.
- He saved Delhi Sultanate from the attack of Chengiz Khan, the Mongol leader, by refusing shelter to Khwarizm Shah, whom Chengiz was chasing.
- He introduced the silver coin (tanka) & the copper coin (jital).
- He organized the Iqta System & introduced reforms in civil administration & army, which was now centrally paid & recruited.
- He set up an official nobility of slaves known as Chahalgani/ Chalisa (group of forty).
- He completed the construction of Qutub Minar which was started by Aibak.
- He patronized Minhaj-us-Siraj, author of 'Tabaqat-i-Nasiri'.

Ruknuddin : 1236

- He was son of Iltutmish & was crowned by her mother, Shah Turkan, after death of Iltutmish.
- He was deposed by Razia, daughter of Iltutmish.

Razia Sultana: (1236 – 40)

- Iltutmish had nominated his daughter Razia as the successor, the nobles placed Ruknuddin Feroz on the throne.
- She was the 'first & only Muslim lady who ever ruled India'.
- She used to rule without the veil
- She further offended the nobles by her preference for an Abyssian slave Yakut.
- The wazir of Iltutmish Junnaidi revolted against her but was defeated.
- There was a serious rebellion in Bhatinda, Altunia, governor of Bhatinda refused to accept suzerainty of Razia. Razia accompanied by Yakut marched against Altunia.
- However, Altunia got Yakut murdered & imprisoned Razia.
- Subsequently, Razia was married to Altunia & both of them marched towards Delhi as nobles in Delhi raised Bahram Shah (3rd son of Iltutmish) to throne.
- In 1240 AD, Razia became the victim of a conspiracy & was assassinated near Kaithal (Haryana).

Bahram Shah: 1240-42

- Iltutmish's third son Bahram Shah was put on throne by powerful Turkish council Chalisa.
- He was killed by Turkish nobles.

Allauddin Masud Shah: 1242-46

- He was son of Ruknuddin Feroz.
- He was disposed after Balban & Nasiruddin Mahmud's Mother, Malika-e-Jahan, conspired against him & established Nasiruddin Mahmud as the new Sultan.

Nasiruddin Mahmud: 1246-66

- He was the eldest son of Iltutmish.
- Minhaj-us-Siraj has dedicated his book Tabaquat-i-Nasiri to him

Ghiyasuddin Balban: 1266-87

- After the death of Nasiruddin; Balban ascended the throne in 1266.
- He broke the power of Chalisa & restored the prestige of the crown. He made kingship a serious profession.
- The Persian court model influenced Balban's conception of Kingship. He took up the title of Zil-i-Ilahi (Shadow of God).
- He introduced Sijda (prostration before the monarch) & Paibos (kissing the feet of monarch) as the normal forms of salutation.
- Divine right of the king was emphasized by calling himself Zil-i-Ilahi.
- He gave great emphasis on justice & maintaining law & order.

- He established the military department Diwan-i-Arz.
- In his last days he overlooked Sultanate affairs due to death of his eldest & most loving son, Muhammad, & rebellion by his closest & most loved slave, Tughril. Muhammad died fighting Mongolians in 1285 & Tughril was captured & beheaded.

Kaiqubad: 1287-90

- He was the grandson of Balban who was established on the throne by Fakruddin, the Kotwal of Delhi
- But Kaiqubad was killed by nobles Kaimur
- He was the minor son of Kaiqubad who came to throne at an age of 3
- He was the last Illbari ruler
- The Khalji nobles revolted against him & he was killed within three months.

The Khalji Dynasty (1290-1320 A.D.)

Jalaluddin Khalji (1290-96)

- Jalaluddin Khalji founded the Khalji dynasty.
- He was a liberal ruler & adopted the policy of religious toleration
- His son-in-law & nephew was Allauddin Khalji

Allauddin Khalji (1296-1316)

- He was the first Turkish Sultan of Delhi who separated religion from politics. He proclaimed 'Kingship knows no Kinship'.
- During the reign of Jalaluddin Khalji, he was the governor of Kara
- He adopted the title Sikander-e-Saini or the second Alexander
- Allauddin annexed Gujarat (1298), Ranthambhor (1301), Mewar (1303), Malwa (1305), Jalor (1311).
- In Deccan, Allauddin's army led by Malik Kafur defeated Ram Chandra (Yadava ruler of Devagiri), Pratap Rudradeva (Kakatiya ruler of Warangal), Vir Ballal III (Hoyasala ruler of Dwarsamudra) & Vir Pandya (Pandya ruler of Madurai).
- Malik Kafur was awarded the title Malik Naib

Administrative & Market reforms during Allauddin

- Allauddin issued 4 ordinances.
 1. Aimed at confiscation of the religious endowments & free grants of lands.
 2. Reorganized the spy system.
 3. Prohibited the use of wine.
 4. Nobles should not have convivial parties & they should not inter-marry without his permission.

Appoint Diwan-i-Riyasat Shatna-i-mandi

- He introduced the system of Dagh (the branding of horse) & Chehra (descriptive roll of soldiers).

- Alauddin ordered that all land was to be measured & then they share of state was to be fixed.
- The post of special officer called Mustakharaj was created for the purpose of collection of revenue.
- Alauddin sought to fix cost of all commodities.
- All goods for sale were brought to an open market called Sara-i-Adal.
- Many forts were built by him & the most important of them was Alai fort. He also constructed the Alai Darwaja, the entrance gate of Qutub Minar. He also built the Palace of thousand Pillars called Hazar Sutun.
- He was a patron of art & learning. Amir Khusrau, the poet-musician was his favorite court poet.

Malik Kafur

- In 1316, after death of Alauddin, Malik Kafur seized the throne.
- Before Kafur died, he nominated Shihabuddin (Alauddin's 6 year old prince) as King but imprisoned eldest prince Mubarak Khan.
- Kafur was killed by the loyalists of the royal family of Alauddin.

Shiabuddin Umar (1316)

- He was the minor son of Jhitaipali who was raised to throne after the death of Alauddin.
- He became victim of the court politics & was later blinded.

Mubarak Khalji (1316-20)

- He released 18,000 prisoners
- He reversed all the administrative & market reforms of Alauddin Khalji.
- During his time Devagiri was annexed.

The Tughlaq Dynasty

Ghiyasuddin Tughlaq

- Ghazi Malik or Ghiyasuddin Tughlaq of Qaurana tribe was the founder of Tughlaq dynasty.
- He was the governor of Dipalpur before coming to power as Sultan
- He died in the collapse of the victory pavilion near Delhi

Mohammad Bin Tughlaq (1325-51)

- Prince Jauna, son of Ghiyasuddin Tughlaq ascended the throne in 1325.
- He gained the title Ulugh Khan, he was most educated of all the Sultans of the Delhi Sultanate
- He created a department Diwan-e-Amir-e-Kohi for the improvement of the agriculture
- He distributed Sondhar i.e. agriculture loans advanced for extension of agriculture of barren land

- He encouraged cash crops in place of cereals

Jalaluddin Ahsan Shah

1336: Foundation of Vijayanagar by Harihar & Bukka; & Warangal became independent under Kanhaiya.

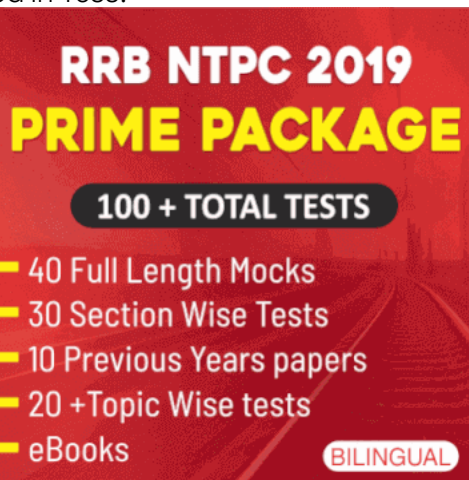
The five experiments

- **Taxation in the Doab:** The Sultan made an ill-advised financial experiment in the Doab between the Ganges & Yamuna. The Sultan created a new department of Agriculture called Diwan-i-Kohi.
- **Transfer of Capital:** The most controversial step which Mohammad-bin Tughlaq undertook soon after his accession was the so called transfer of capital from Delhi to Devagiri. Devagiri was thus named Daulatabad.
- **Introduction of Token Currency:** Mohammad-bin-Tughlaq decided to introduce bronze coins, which were to have same value as the silver coins.
- **Proposed Khurasan Expedition:** The Sultan had a vision of universal conquest. He decided to conquer Khurasan & Iraq & mobilised a huge army for the purpose. He was encouraged to do so by Khurasani nobles who had taken shelter in his court. Moreover there was instability in Khurasan on account of the unpopular rule of Abu Said. This project was also abandoned because of the change in political scenario in Khurasan.
- **Quarachil Expedition:** This expedition was launched in Kumaon hills in Himalayas allegedly to counter Chinese incursions. It also appears that the expedition was directed against some refractory tribes in Kumaon-Garhwal region with the object of bringing them under Delhi Sultanate. The first attack was a success but when the rainy season set in, the invaders suffered terribly.
- He died in Thatta while campaigning in Sindh against Taghi, a Turkish slave.

Feroz Shah Tughlaq (1351-88)

- He was a cousin of Mohammad-bin Tughlaq.
- He adopted the policy of appeasement with the nobility, the army & theologians
- The new system of taxation was according to Quran. Four kinds of taxes sanctioned by the Quran were imposed & those were Kharaj, Zakat, Jizya & Khams. Kharaj was the land tax, which was equal to 1/10 of the produce of the land, Zakat was 2% tax on property, Jizya was levied on non-Muslims & Khams was 1/5 of the booty captured during war.
- Feroz tried to ban practices, which the orthodox theologians considered non Islamic. Thus he prohibited the practice of Muslim women going out to worship at graves of saints & erased paintings from the palace.

- It was during the time of Firoz that Jizya became a separate tax.
- In order to encourage agriculture, the Sultan paid a lot of attention to irrigation. Firoz repaired a number of canals & imposed Haque-i-Sharb or water tax
- He was a great builder as well; to his credit are cities of Fatehabad, Hisar, Jaunpur & Firozabad.
- The two pillars of Ashoka, one from Topra (Haryana) & other from Meerut (U.P.) were brought to Delhi.
- The Sultan established at Delhi, a hospital described as Dar-ul-Shifa.
- A new department of Diwan-i-Khairat was set up to make provisions for marriage of poor girls.
- However his rule is marked by peace & tranquility & credit for it goes to his Prime Minister Khan-i-Jahan Maqbul.
- He died in 1388.



The Sayyaid dynasty

- Khizr Khan (1414-21)
- Mubarak Shah (1421-34)
- Muhammad Shah (1434-43)
- Alam Shah (1443-51)--He was the last Sayyid king descended in favour of Bahlol Lodhi & he retired. Thus began the Lodhi dynasty.

The Lodhi Dynasty

Bahlol Lodhi: 1451-88

- Bahlol Lodhi was one of the Afghan sardars who established himself in Punjab after the invasion of Timur.
- He founded the Lodhi dynasty.
- Jaunpur was annexed into Delhi Sultanat during his reign.

Sikandar Lodhi: 1489-1517

- Sikandar Lodi was the son of Bahlol Lodhi who conquered Bihar & Western Bengal.
- Agra city was founded by him.

- Sikandar was a fanatical Muslim & he broke the sacred images of the Jwalamukhi Temple at Nagar Kot & ordered the temples of Mathura to be destroyed.
- He reimposed Jaziya tax on non muslims
- He use to write poems with the pen name "Gulrukhi"
- He took a keen interest in the development of agriculture. He introduced the Gaz-i-Sikandari (Sikandar's yard) of 32 digits for measuring cultivated fields.

Ibrahim Lodhi : 1517-26

- He was the last king of the Lodhi dynasty & the last Sultan of Delhi.
- He was the son of Sikandar Lodhi.
- At last Daulat Khan Lodhi, the governor of Punjab invited Babur to overthrow Ibrahim Lodhi.
- Babur accepted the offer & inflicted a crushing defeat on Ibrahim Lodhi in the first battle of Panipat in 1526.
- He was the only Sultan who died in battle field

2.2 Administration under Sultanate

- There were four pillars of the state i.e.:
 - ❖ Diwan-i-Wizarat or finance department
 - ❖ Diwan-i-Risalat or department of religious matters & appeals
 - ❖ Diwan-i-Arz or department of military affairs
 - ❖ Diwan-i-Insha or department of royal correspondence

2.3 Art & architecture under Delhi Sultanate

- The new features brought by the Turkish conquerors were:
 - The dome
 - The lofty towers
 - The true arch unsupported by beam
 - The vault
- Aibak built a **Jami Masjid** & Quwwat-ul-Islam mosque, he also began the construction of Qutub Minar
- Aibak also built the Adhai-din ka Jhonpra at Ajmer has a beautiful prayer hall, an exquisitely carved Mehrib of white marble & a decorative arch screen.
- The first example of true or arch is aid to be the tomb of Ghiyasuddin Balban in Mehrauli (Delhi).
- Allauddin Khalji began the work of Alai minar to rival Qutab Minar, but this could'nt be completed because of his death
- Some notable Tughlaq monuments are the fort of Tughlaquabad, the tomb of Ghiyasuddin Tughlaq which marked a new phase in Indo-Islamic architecture.

Mughal period

Babur

- The foundation of the Mughal rule in India was laid by Babur in 1526.
- He was a descendant of Timur (from the side of his father) & Chengiz Khan (from the side of his mother).
- Babur was invited by Daulat Kahna Lodi & Alam Khan Lodi against Ibrahim Lodi
- Babur defeated Ibrahim Lodhi in the first battle of Panipat on April 21, 1526 & established Mughal dynasty.
- In 1527, he defeated Rana Sanga of Mewar at Khanwa.
- In 1528, he defeated Medini Rai of Chaneri at Chanderi.
- In 1529, he defeated Muhammad Lodhi (uncle of Ibrahim Lodhi) at Ghaghra.
- In 1530, he died at Agra. His tomb is at Lahore. The tomb of only two Mughal emperors are outside India i.e. Babur & Bahadur Shah Zafar
- He was the first to use gunpowder & artillery in India.
- Two gun masters Mustafa & Ustad Ali were in his army
- He wrote his autobiography Tuzuk-i-Baburi in Turkish.
- Tuzuk-i-Baburi was translated in Persian (named Baburnama) by Abdur Rahim Khan-e-khana & in English by Madan Bebridge.
- He compiled two anthologies of poems, Diwan (in Turki) & Mubaiyan (in Persian). He also wrote Risal-i-Usaz or letters of Babur.

Humayun (1530-40 & 1555-56)

- He was the son of Babur & ascended the throne in 1530. His succession was challenged by his brothers Kamran, Hindal & Askari along with the Afghans.
- In 1532 he established Tabl-e-adl at Agra.
- He fought two battles against Sher Shah at Chausa (1539) & at Kannauj/Bilgram (1540) & was completely defeated by him.
- He escaped to Iran where he passed 12 years of his life in exile.
- After Sher Shah's death Humayun invaded India in 1555 & defeated his brothers the Afghans. He once again became the ruler of India.
- He died while climbing down the stairs of his library (at Din Panah) in 1556 & was buried in Delhi.
- Abul Fazal calls him Insan-e-Kamil.
- His sister, Gulbadan Begum wrote his biography Humayunama.
- He built Din Panah at Delhi as his second capital.

Sur Empire (Second Afghan Empire) 1540-55

Sher Shah: 1540-45

- He was the son of Hasan Khan, the Jagirdar of Sasaram.
- In 1539, he defeated Humayun in the battle of Chausa & assumed the title Sher Shah as emperor.
- As an emperor, he conquered Malwa (1542), Ranthambhor (1542), Raisin (1543), Rajputana annexation of Marwar (1542), Chittor (1544) & Kalinjar (1545). He died in 1545 while conquering Kalinjar.
- Purana Quila was built during his reign
- During his brief reign of 5 years he introduced a brilliant administration, land revenue policy & several other measures to improve economic conditions of his subjects.
- He issued the coin called **Rupiah** & fixed standard weights & measures all over the empire.
- He also improved communications by building several highways. He built the Grand Trunk Road (G.T. Road), which runs from Calcutta to Peshawar. The other roads built during his reign were:
 - **Agra to Mandu**
 - **Agra to Jodhpur & Chittor**
 - **Lahore to Multan**
- He set up cantonment in various parts of his empire & strong garrison was posted in each cantonments.
- According to Abul Fazal the empire of Sher Shah was divided into 63 sarkars or districts.
- The unit of land measurement was "bigha".
- He like Allauddin Khalji introduced Dagh & Chera in the army
- Zamindars were removed & the taxes were directly collected.
- He was buried in Sasaram.

Akbar

- Akbar, the eldest son of Humayun, ascended the throne under the title of Jalaluddin Muhammad Akbar Badshah Ghazi at the young age of 14.
- His coronation took place at Kalanaur.
- Second Battle of Panipat (5 Nov., 1556) was fought between Hemu (the Hindu General of Muhammad Adil Shah) & Bairam Khan (the regent of Akbar). Hemu was defeated, captured & slain by Bairam Khan.
- In the initial years of his rule Akbar was first under the influence of his reagent Bairam & then under her mother Maham Anga.
- The period of influence of Maham Anga on Akbar i.e. from 1560-62 is known as the period of Petticoat government.
- Age of marriage for boys & girls was increased to 16 years & 14 years respectively

- **Sati was prohibited**
- In his 24th year Akbar introduced Dahsala system for the collection of land revenue by the state.
- The Mansabdari system under Akbar, divided the Mansabdars into 66 categories. **This system fixed the following service conditions:**
 - **Rank & status**
 - **Salary**
 - **Number of sawars (horsemen)**
- As a revolt against the orthodoxy & bigotry of religious priests, Akbar proclaimed a new religion, Din-i-Ilahi, in 1581. Birbal was the only Hindu who followed this new religion.
- Akbar built Fatehpur Sikri, Agra Fort, Lahore Fort & Allahabad Fort & Humayun's Tomb at Delhi. Fatehpur Sikri, place near Agra-it said that Akbar had no son for a long time. Sheikh Salim Chisti, a Sufi saint blessed Akbar with a son who was named Salim/Sheikho Baba (Jahangir). In honour of Salim Chisti, Akbar shifted his court from Agra to Fatehpur Sikri.
- Tulsidas (author of Ramcharitmanas) also lived during Akbar's period.
- When Akbar died, he was buried at Sikandara near Agra.
- Birbal was killed in the battle with Yusufzai Tribe (1586).
- Abul Fazl was murdered by Bir Singh Bundela (1601).
- Akbar gave Mughal India one official language (Persian).

Jahangir (1605-27)

- Salim, son of Akbar, came to the throne after Akbar's death in 1605.
- He established Zanjir-i-Adal (i.e. Chain of Justice) at Agra Fort for the seekers of royal justice.
- In 1611, Jahangir married Mihar-un-nisa, widow of Sher Afghan, a Persian nobleman who was sent on expedition to Bengal. Later on she was given the title Nurjahan.
- Nurjahan exercised tremendous influence over the state affairs. She was made the official Padshah Begum.
- Jahangir issued coins jointly in Nurjahan's name & his own.
- Jahangir also married Jodha Bai of Marwar.
- In 1608, Captain William Hawkins, a representative of East India Company came to Jahangir's court. In 1615 Sir Thomas Roe, an ambassador of King James I of England also came to his court. He granted permission to the English to establish a trading port at Surat.
- His reign was marked by several revolts. His son Khusrau, who received patronage of 5th Sikh Guru Arjun Dev, revolted against Jahangir (1605). Arjun

- Dev was later sentenced to death for his blessing to the rebel prince (1606).
- During his last period, Khurram (Shanjahan), son of Jahangir, & Mahavat Khan, military general of Jahangir also revolted (Khurram: 1622-25 & Mahavat Khan: 1626-27).
- He wrote his memories Tuzuk-i-Jahangiri in Persian.
- He was buried in Lahore.

Shah Jahan

- His real name was Khurram, he was born to Jodha Bai (daughter of Raja Jagat Singh).
- Shahjahan ascended the throne in 1628 after his father's death.
- Three years after his accession, his beloved wife Mumtaj Mahal (original name- Arzumand Bano) died in 1631. To perpetuate her memory he built the Taj Mahal at Agra in 1632-53.
- He continued applying tika (tilak) on the fore-head
- He introduced the Char-Taslim in the court
- In addition to Jahangir's empire, Nizam Shahi's dynasty of Ahmadnagar was brought under Mughal control (1633) by Shahjahan.
- Shahjahan's reign is described by French traveller Bernier & Tavernier & the Italian traveler Nicoli Manucci. Peter Mundi described the famine that occurred during Shahjahan's time.
- The Red Fort, Jama Masjid & Taj Mahal are some of the magnificent structures built during his reign.
- Shahjahan's failing health set off the war of succession among his four sons in 1657.
- Aurangzeb emerged the victor who crowned himself in July 1658. Shahjahan was imprisoned by his son Aurangzeb in the Agra Fort where he died in captivity in 1666. He was buried at Taj (Agra).

Aurangzeb

- The war of succession took place in the later stage of the Shah Jahan reign.
- His four sons Dara Shikoh, Aurangzeb, Shah Shuja & Murad were in the state of war for the throne.
- His daughters also supported one son or the other in the tussle for throne Jahan Ara supported Dara. Roshan Ara supported Aurangzeb. Gohara supported Murad.
- Aurangzeb was coroneted twice, he was the only Mughal king to be coroneted twice.
- Barnier was the foreign visitor who saw the public disgrace of Dara after he was finally defeated in war at Deorai.
- During the first 23 years of the rule (1658-81) Aurangzeb concentrated on North India. During this period the Marathas under Shivaji rose to power & were a force to reckon with.

- Highest numbers of Hindu Mansabdars were there in the service of Mughals during the reign of Aurangzeb.
- Aurangzeb captured Guru Teg Bahadur, the 9th Guru of Sikhs in 1675 & executed him when he refused to embrace Islam.
- The 10th & last Sikh Guru, Guru Gobind Singh, son of Guru Teg Bahadur, organized his followers into militant force called Khalsa to avenge the murder of his father.
- Guru Gobind Singh was, however murdered in 1708 by an Afghan in Deccan. Banda Bahadur, the militant successor of Guru Gobind Singh continued the war against Mughals.

Religious policy of Aurangzeb:

- He was called Zinda pir or living saint.
- Muhatasibs were appointed for regulation of moral conduct of the subjects.
- He forbade singing in the court, but allowed musical instruments. He himself played Veena.
- He ended Jhoraka darshan started by Akbar.
- He ordered that no new Hindu temples were to be built. Old temples were allowed to be repaired.
- The Viswanath temple at Kashi & the Keshav Rai temple of Bir Singh Bundela at Mathura were destroyed.
- In 1679 he re-imposed Jaziya tax.

CLASH WITH MARATHAS

- Shivaji was the most powerful Maratha king & an arch enemy of Aurangzeb.
- When Aurangzeb could not eliminate him, he conspired with Jai Singh of Amber, a Rajput, to eliminate Shivaji in 1665.
- On the assurance given by Jai Singh, Shivaji visited Aurangzeb's court. Shivaji was imprisoned by Aurangzeb but he managed to escape & in 1674 proclaimed himself an independent monarch.
- Shivaji died in 1680 & was succeeded by his son Sambhaji, who was executed by Aurangzeb in 1689. Sambhaji was succeeded by his brother Rajaram & after his death in 1700, his widow Tarabai carried on the movements.

Mughal administration

Mansabdari system:

- Each Mughal officer was assigned a mansab (rank), there were 66 categories of Mansabdars
- Jahangir introduced Du-Aspah-Sih-Aspah system whereby the specific noble was to maintain double the number of horsemen.

Central administration:

Wakil: He was initially the Prime Minister, however later became revenue advisor only

Mir Bakshi: He was the head of military department

Provincial administration:

- The empire was divided into provinces or Subas.
- In 1580, Akbar divided the empire into 12 provinces. The number of provinces became 15 towards the end of his reign.
- In Jahangir's reign the number of provinces rose to 17 & further in Aurangzeb's reign to 21
- The Nazim or Subedar was the head of provinces

Local administration:

- The provinces were divided into Sarkars, which were sub divide into Parganas & further into villages

Mughal Culture

- Jahangir's reign was the apex culmination for the Mughal painting while that of Shah Jahan was the apex culmination for architecture.
- Babur built two mosques, one at Kabulibagh in Panipat & the other at Sambhal in Rohilakhand.
- Humayun's tomb was built by his widow Haji Banu Begum.
- The Mariam's palace, Diwan-i-Aam, Diwan-i-Khas at Sikri are Indian in their plan.
- Buland Darwaja (built after Gujarat victory), formed the main entrance to Fatehpur Sikri.
- Salim Chisti's tomb (redone in Marble by Jahangir) is the first Mughal building in pure marble). Palace of Birbal & palace of Tansen are also inside the Fatehpur Sikri.
- Akbar also began to build his own tomb at Sikandara which was later completed by Jahangir.
- The architecture of Fatehpur Sikri is known as Epic in red sand stone.
- Nurjahan built Itimad-ud-daula or Mirza Ghiyas Beg's marble tomb at Agra, which is noticable for the first use of Pietra Dura (floral designs made up of semiprecious stones) technique.
- Jahangir built Moti Masjid in Lahore & his mausoleum at Shahdara (Lahore).
- Some of the important buildings built by Shahajahan at Agra are Moti Masjid (only Mosque of marble). Khaas Mahal, Mussman Burz (Jasmine Palace where he spent his last year in captivity) etc.
- He laid the foundations of Shahjahanabad in 1637 where he built the Red Fort & Takht-i-Taus (Peacock throne).
- Only building by Aurangzeb in the Red Fort is Moti Masjid.

- Only monument associated with Aurangzeb is Bibi ka Makbara which is the tomb of his wife Rabbiaud-daura in Aurangabad.
- Aurangzeb also built the Badshahi Masjid in Lahore.
- Humayun had taken into his service two master painter Mir Syed Ali & Abdus Samad.
- Daswant & Basawan were two famous painters of Akbar's court.
- Abdul Hassan, Ustad Mansur & Bishandas were three famous painters of Jahangir's court.

The landmark events that took place during the reign of Akbar

- 1562 - Ban on forcible conversion of war-prisoners into slaves
- 1563 - Abolition of Pilgrimage Tax
- 1564 - Abolition of Jaziya
- 1571 - Foundation of Fatehpur Sikri
- 1579 - Proclamation of 'Mazhar' (written by Faizi)
- 1580 - Dabsala Bandobast introduced
- 1582 - Din-i-Ilahi / Tauhid-i-Ilahi
- 1584 - Ilahi Samvat i.e. Calender
- 1587 - Ilahi Gaz i.e. Yard

Mughal Literature

- Akbar Nama--Abul Fazl
- Tobaqat-i-Akbari--Khwajah Nazamuddin Ahmad Baksh
- Iqbalnama-i-Jahangiri--Muhammad Khan
- Ain-i-Akbari --Abul Fazl
- Padshah Namah-- Abdul Hamid Lahori
- Shahjahan Namah-- Muhammad Salih
- Sirr-i-Akbar-- Dara Shikoh
- Safinat-ul-Auliya -- Dara Shikoh
- Majma-ul-Bahrain -- Dara Shikoh
- Raqqat-e-Alamgiri -- Aurangzeb

Mughals After Aurangzeb

1. Which Mughal ruler in Indian history as "Shah-e-Bekhabar?"
Ans. Bahadur Shah.
2. During the reign of which Mughal ruler there was a Sikh rising in Punjab under the leadership of Banda Bahadur? Ans. Bahadur Shah.
1. Who abolished the Jazia tax reimposed by Aurangzeb? Ans. Jahandar Shah.
2. Who was Ahmad Shah Abdali?
Ans. He was the Defense Minister of Nadir Shah.
3. Between whom the third battle of Panipat was fought & when?
Ans. Ahmad Shah Abdali & the Marathas in 1761 AD?
4. Which Mughal ruler participated in the battle of Buxar in 1764 AD, in favour of Mir Qasim of Bengal

& Nawab' of Avadh Shuja-ud-Daula against the British rule?

Ans. Shah Alam II.

5. Which Mughal ruler had to grant the Diwani of Bengal, Bihar & Orissa to the British after the battle of Buxar?
Ans. Shah Alam II.
6. Who was the last ruler of Mughal dynasty?
Ans. Bahadur Shah Zafar.
7. Where Bahadur Shah Zafar was deposed in capital?
Ans. Rangoon.
8. Where Bahadur Shah Zafar died?
Ans. In Rangoon.
9. Who is the **architect** of **Taj Mahal**?
Ans. **Ustad Iza**
10. What is the Gate way of **Redfort** called as?
Ans. **Lahore Gate**
11. Which is the biggest masjid in India?
Ans. **Jama Masjid in delhi**

Bahadur Shah I (1707-12)

- Muzam succeeded Aurungzeb after latter's death in 1707
- He acquired the title of Bahadur Shah.
- Granted Sardeshmukhi to Marathas but not Chauth
- Released Shahuji (son of Sambhaji) from prison (who later fought with Tarabai)
- Tried to make peace with Guru Gobind Sahib by giving him a high Mansab.
- After Guru's death, Sikhs again revolted under the leadership of Banda Bahadur. This led to a prolonged war with the Sikhs.
- Made peace with Chhatarsal, the Bundela chief & Churaman, the Jat chief.

Jahandar Shah (1712-13)

- Death of Bahadur Shah plunged the empire into a civil war.
- Jahandar Shah, son of Bahadur Shah, ascended the throne in 1712 with help from Zulfikar Khan.
- Zulfikar Khan, his wazir, was virtually the head of the administration.
- Zulfikar Khan abolished jizyah.
- Peace with Rajputs: Jai Singh of Amber was made the Governor of Malwa.
- Ajit Singh of Marwar was made the Governor of Gujarat.
- Chauth & Sardeshmukh granted to Marathas. However, Mughals were to collect it & then hand it over to the Marathas.
- Ijarah: (revenue farming) the government began tcontract with revenue farmers & middlemen to pay the government a fixed amount of money while they were left free to collect whatever they could from the peasants

- Jahandhar Shah defeated in January 1713 by his nephew Farrukh Siyar at Agra

Farrukh Siyar (1713-19)

- Owed his victory to Saiyid Brothers: Hussain Ali Khan Barahow & Abdullah Khan
- Abdullah Khan: Wazir, Hussain Ali: Mir Bakshi
- FS was an incapable ruler. Saiyid brothers were the real rulers.

Saiyid Brothers

1. Known the Indian History as King Makers
2. Adopted the policy of religious tolerance. Abolished jizyah.
3. Pilgrim tax was abolished from a number of places
4. Marathas: Granted Shahu swarajya & the right to collect chauth & sardeshmukhi of the six provinces of the Deccan
5. They failed in their effort to contain rebellion because they were faced with constant political rivalry, quarrels & conspiracies at the court.
6. Nobles headed by Nizam-ul-Mulk & Muhammad Amin Khan began to conspire against them
7. In 1719, the Saiyid Brothers killed & overthrew Farukh-Siyar.

Muhammad Shah 'Rangeela' (1719-1748)

- Weak-minded, frivolous & over-fond of a life of ease
- Neglected the affairs of the state
- Naizam ul Mulk Qan Qalik Khan, the wazir, relinquished his office & founded the state of Hyderabad in 1724
- "His departure was symbolic of the flight of loyalty & virtue from the Empire"
- Hereditary nawabs arose in Bengal, Hyderabad, Awadh & Punjab
- Marathas conquered Malwa, Gujarat & Bundelkhand

Nadir Shah's Invasion (1738)

- Attracted to India by its fabulous wealth.
- The twarmies met at Karnal on 13th Feb 1739. Mughal army was summarily defeated. MS taken prisoner
- Massacre in Delhi in response to the killing of some of his soldiers.
- Plunder of about 70 crore rupees. Carried away the Peacock throne & Koh-inoor
- MS ceded thim all the provinces of the Empire west of the river Indus
- Significance: Nadir Shah's invasion exposed the hidden weakness of the empire to the Maratha sardars & the foreign trading companies

Ahmed Shah Abdali

- One of the generals of Nadir Shah
- Repeatedly invaded & plundered India right down to Delhi & Mathura between 1748 & 1761. He invaded India five times.
- 1761: Third battle of Panipat. Defeat of Marathas.
- As a result of invasions of Nadir Shah & Ahmed Shah, the Mughal empire ceased to be an all-India empire. By 1761 it was reduced merely to the Kingdom of Delhi

Shah Alam II (1759)

- Ahmed Bahadur (1748-54) succeeded Muhammad Shah
- Ahmed Bahadur was succeeded by Alamgir II (1754-59)
- 1756: Abdali plundered Mathura
- Alamgir II was succeeded by Shah Jahan III
- Shah Jahan III succeeded by Shah Alam II in 1759
- Shah Alam spent initial years wandering for he lived under the fear of his wazir.
- In 1764, he joined forces with Mir Qasim of Bengal & Shuja-ud-Daula of Awadh in declaring a war upon the British East India company. This resulted in the Battle of Buxar
- Pensioned at Allahabad.
- Returned to Delhi in 1772 under the protection of Marathas.

Decline of the Mughal Empire

- After 1759, Mughal empire ceased to be a military power.
- It continued from 1759 till 1857 only due to the powerful hold that the Mughal dynasty had on the minds of the people of India as a symbol of the political unity of the country
- In 1803, the British occupied Delhi
- From 1803 to 1857, the Mughal emperors merely served as a political front of the British.
- The most important consequence of the fall of the Mughal empire was that it paved way for the British to conquer India as there was no other Indian power strong enough to unite & hold India.

The Marathas

2.1 Shivaji (1627-80)

- Shivaji was the son of Shahji & Jijabai & was born in the fort of Shivner.
 - Shivaji inherited the Jagir of Poona from his father in 1637.
 - His guru was Ramdas Samrath
 - After the death of his guardian, Dadaji Kondadev, in 1647, he assumed full charge of his Jagir.
 - He conquered many Forts viz.
1. Singh Garh/ Kondana (1643)

2. Rohind & Chakan (1644-45)
3. Toran (1646)
4. Purandhar (1648)
5. Rajgarh/ Raigarh (1656)
6. Supa (1656)
7. Panhala (1659).
- In 1657 Shivaji first confronted the Mughals, talking advantage of the Mughal invasion of Bijapur, he raided Ahamadnagar & plundered Junnar.
- In 1659-60, Afzal Khan was deputed by Adil Shah of Bijapur to punish Shivaji; but the later Afzal Khan was murdered by Shivaji in 1659. The famous "baghnakh" episode is related with the death of Afzal Khan.
- In 1660, Shaista Khan, governor of Deccan, was deputed by Aurangzeb to check Marathas. Shivaji lost Poona, Kalyan & Chakan also suffered several defeats till he made a bold attack on Shaista Khan(1663) & plundered Surat (1664) & later Ahmadnagar.
- Raja Jai Singh of Amber & Diler Khan were then appointed by Aurangzeb to curb the rising power of Shivaji in 1665.
- Jai Singh succeeded in besieging Shivaji in the fort of Purandhar. Consequently the treaty of Purandhar (1665) was signed according to which Shivaji ceded some forts to the Mughals & paid a visit to the Mughal court at Agra.
- In 1666, Shivaji visited Agra but there he was insulted
- In 1670, Shivaji captured most of the forts lost by the treaty of Purandhar.
- In 1674 Shivaji was coronated at capital Raigarh & assumed the title of Haindava Dharmodharak (Protector of Hinduism).
- After that Shivaji continued the struggle with Mughals & Siddis (Janjira). He conquered Karnataka during 1677-80.
- His last expedition was against Ginjee & Vellore.

Shivaji's Administration

- Swarajya was directly under the control of Maratha.
- Chauth & Sardeshmukhi were taxes collected by Marathas.
- Chauth was paid to the Marathas so as not be subjected to Maratha raids.
- Sardeshmukhi was an additional levy of 10% on those lands of Maharashtra over which the Maratha claimed hereditary rights, but which formed part of the Mughal Empire.
- Marathi became the official language.
- Shivaji divided his territory under his rule (Swarajya) into three provinces, each under a viceroy. Provinces were divided into Prants which were subdivided into parganas or tarafs.

- Shivaji was helped by the Ashtapradhan (Eight-minister) which was unlike a council of ministers, for there was no collective responsibility; each minister was directly responsible to Shivaji.

Shivaji's Ashtapradhan

- 1. Peshwa (Mukhya Pradhan):** Finance & general administration, later he became PM & assumed great importance.
- 2. Sar-i-Naubat (Senapati):** Military commander. This is an honorary post with no real military powers.
- Later on the ninth minister named Pratinidhi was added by Raja Ram a successor of Shivaji
- Most of the administrative reforms of Shivaji were based on Malik Ambar's (Ahmadnagar) reforms.

2.2 Successors of Shivaji

Shambhaji: 1680-1689

- Sambhaji, the elder son of Shivaji, defeated Rajaram, the younger son of Shivaji, in the war of succession.
- He provided protection & support to Akbar II, the rebellious son of Aurangzeb.
- He was captured at Sangameswar by a Mughal noble & executed(killed).

Rajaram: 1689-1700

- He succeeded the throne with the help of the ministers at Rajgarh.
- He fled from Rajgarh to Jinji in 1689 due to a Mughal invasion in which Rajgarh was captured along with Sambhaji's wife & son (Shahu) by the Mughals.
- Rajaram died at Satara, which had become the capital after the fall of Jinji to Mughal in 1698.
- Rajaram created the new post of Pratinidhi, thus taking the total number of minister to nine (Pratinidhi + Ashtapradhan).

Tarabai: 1700-1707

- Rajaram was succeeded by his minor son Shivaji II under the guardianship of his mother Tarabai.
- Tarabai continued the struggle with Mughals

Shahu : 1707-1749

- Shahu was released by the Mughal emperor Bahadur Shah.
- Tarabai's army was defeated by Shahu at the battle of Khed (1700) & Shahu occupied Satara.
- Shahu's reign saw the rise of Peshwas & transformation of the Maratha kingdom into an empire based on the principle of confederacy.

Balaji Viswanath (1714-20): The First Peshwa

- He began his career as a small revenue official & was given the title of Sena Karte (marker of the army) by Shahu in 1708.
- He became Peshwa in 1713 & made the post the most important & powerful as well as hereditary.
- He concluded an agreement with the Syed Brothers-King Maker (1719) by which the Mughal emperor Farrukhsiyar recognised Shahu as the king of the Swarajya.

Baji Rao I: 1720-40

- Baji Rao, the eldest son of Balaji Viswanath, succeeded him as Peshwa at the young age of 20.
- He was considered the greatest exponent of guerrilla tactics after Shivaji & Maratha power reached its zenith under him.
- Under him several Maratha families became prominent & got themselves entrenched in different parts of India.
- He conquered Bassein and

Salsette from the Portuguese (1739).

- He also defeated the Nizam-ul-Mulk near Bhopal & concluded the treaty of Doraha Sarai by which he got Malwa & Bundelkhand from the latter (1738).
- He said about Mughals: 'Let us strike at the trunk of the withering tree & the branches will fall of themselves'.

Balaji Baji Rao: 1740-61

- Popularly known as Nana Saheb, he succeeded his father at the age of 20.
- After the death of Shahu (1749), the management of all state affairs was left in his hands.
- In an agreement with the Mughal emperor Ahmad Shah, the Peshwa was to protect the Mughal empire from internal & external enemies (like Ahmad Shah Abdali) in return for Chauth (1752).
- Third battle of Panipat (Jan 14, 1761) resulted in the defeat of the Marathas by Ahmad Shah Abdali & the death of Viswas Rao & Sadashiv Rao Bhau. This event shocked the Peshwa Balaji Baji Rao & after six months he also died. This battle ended the Maratha power.

QUESTIONS

1. Who was the first person to unite the Marathas?
Ans. Shivaji.
2. Who was the founder of Marathas Empire?
Ans. Shivaji.
3. By whom was Shivaji greatly impressed?
Ans. His mother Jija Bai.

4. What was Shivaji's first Military achievement?
Ans. His first military achievement was the capturing of the Torna Fort of Bijapur in 1446 AD.
5. When & where Shivaji made his capital?
Ans. 1656 AD, Raigarh.
6. When did Shivaji fight a war with Bijapur state?
Ans. In 1659 AD, Afzal Khan of Bijapur was killed in this war & Shivaji got a huge booty.
7. Aurangzeb sent whom against Shivaji?
Ans. Shaista Khan, but he had to flee from the battle field.
8. Shivaji plundered which city of Gujarat & when?
Ans. Surat, in 1664 AD.
9. To crush whom did Aurangzeb send Raja Jaisingh of Amber?
Ans. Shivaji. Raja Jai Singh captured many Marathas forts & compelled him to make peace.
10. Between whom the treaty of Purandara was signed?
Ans. Shivaji & Aurangzeb.
11. When did Shivaji attend the court of Aurangzeb?
Ans. In 1666 AD.
12. When was Shivaji imprisoned in the court of Aurangzeb?
Ans. In 1666 AD.
13. When did Shivaji again loot Surat?
Ans. In 1670 AD.
14. When did Shivaji celebrate his coronation?
Ans. In 1674 AD.
15. Which of his son did Shivaji send in the service of Aurangzeb?
Ans. Shambhaji.
16. By how many ministers Shivaji was assisted?
Ans. Eight ministers.
17. The council of eight ministers of Shivaji was known by which name?
Ans. Ashtha Pradhan.
18. Which was the most important post in Shivaji's council?
Ans. Peshwa (PM).
19. Which was the second most important post in Shivaji's council?
Ans. Amatya (Finance Minister).
20. What was the tax system of Shivaji?
Ans. The land revenue was fixed at 2/5th of the total produce. The Chauth & the Sardeshmukhi were also the main source of income of the state.
21. What was the Chauth?
Ans. Shivaji used to plunder the neighboring states & small principalities. They were always in fear of Shivaji's raid. They entered into an agreement with Shivaji & he assured them not to attack & plunder them by paying a tax called Chauth. The Chauth was 1/4th of the standard revenue.
22. What was Sardeshmukhi?

Ans. Sardeshmukhi was also a tax paid by the territories & principalities so that Marathas might also fight for them & save them from other invaders. Sardeshmukhi was charged 1/4th the standard revenue.

23. Aurangzeb called whom by the name of "Pahari Chuha"?

Ans. Shivaji.

24. In which war strategy Marathas were very popular?

Ans. Guerilla war.

25. Which title did Shivaji assume & swear for the protection of Brahmans?

Ans. Hindu Padshahi & saviour of the religion.

26. When did Shivaji died?

Ans. In 1680 AD.

Important battles fought in India

- **Battle of Tarain (First)(1191)**-This battle was fought at Tarain near Thaneswar. Prithviraj of Chauhan Dynasty defeated the Mohammad of Ghori.
- **Second Battle of Tarain (1192)**-It was fought at same Tarain battlefield as in the first Tarain battle. This was fought by Mohammad Ghori against Prithvi Raj Chauhan. This time Prithvi Raj was defeated.
- **Battle of Khanwa(17-March-1527)**--Rajputs under Rana of Mewar Rana Sanga, were defeated by Babur of Ferghana. Rana Sanga was brutally wounded in the battlefield.
- **Battle of Chausa (7-June-1539)** - Sher shah defeated the mughals, but Humayun, the king escaped by crossing over the river.
- **Battle of Kanauj or Billgram (17-May-1540)** -Sher shah won against Humayun. Occupied only Agra city.
- **Battle of Panipat (5-November-1556)** - Hem Chandra Vikramaditya (Hemu) was defeated by Mughals under Akbar.
- **Battle of Haldighati (1576)** - This was started between Akbar & Rana of Mewar Pratap. Mughals won. But Rana did not accept Mughal sovereignty.
- **First Carnatic War (1745-48)** - This war was fought by British & French armies. French occupied Madras, later returned it to British.
- **Second Carnatic War (1749-54)** - French army under the Duplex fought with British & British won. In 1755 they made a provisional treaty.
- **Third Carnatic War (1756-63)** - In 1758 French occupied Fort Saint David. But defeated at Wandiwasi (1760). Britishers won.
- **Battle of Plassey (June-1757)** - British Army under the command of Rober Clive fought with Bengal Nawab Siraz-ud-daula & British won & Mir Jafar was made Nawab. Siraz-ud-daula was hanged.

- **Battle of Buxar (1764)** - British army under the command of Major Manri defeated the combined army of Mir Kasim nawab of Bengal, Shuja-ud-daulah nawab of Awadh, Sha Alam, Mughal emperor.

Other Important Battles & Wars

- **Battle of Hydaspes (326 B.C)** — The Paurava king Porus was defeated by Alexander the Great. But the valour of Porus impressed Alexander & he returned his kingdom to him.
- **Battle of Kalinga (261 B.C)**— Ashoka defeated Kalinga king. After this war Ashoka embraced Buddhism & preached it during the rest of his life.
- **Battle of Chhandwar (1194 A.D)**-Mohammed Ghori defeated Jayachandra of Kannauj.
- **First Battle of Panipat (1526 A.D)**—Babur (Mughal Dynasty) defeated Ibrahim Lodhi.
- **Battle of Talikota (1564- 65 AD)**— Alliance between Bijapur, Bidar, Ahmednagar & Golkonda under Hussain Nizam Shah defeated Ram Raja of Vijayanagar Empire.
- **First Anglo-Mysore War (1767-1769)** —Between the Sultanate of Mysore & the East India Company. British were defeated.
- **First Anglo-Maratha War (1775-1782 A.D)**- Fought between the British East India Company & Maratha Empire in India.Maratha defeated English forces ended with Treaty of Salbai.All the territories occupied by the British after the treaty of Purandar were given back to the Marathas.
- **Second Anglo-Mysore War (1780 A.D)** — Alliance between Haider Ali, the Nizam & the Marathas was formed. They defeated the English.Hyder Ali became the master of Carnatic.
- **Third Anglo-Mysore War (1790- 92 A.D)**—Fought between the English & Tipu Sultan (Son of Hyder Ali). Tipu Sultan was compelled to sign the Treaty of Seringapatam.
- **Fourth Anglo-Mysore War (1799 A.D)** — The British forces (Under Arthur Wellesley) defeated & killed Tipu Sultan.
- **Second Anglo-Maratha War (1803-1805 A.D)**— Fought between English & the Marathas.British defeated Marathas & annexed Tanjore, Surat & Carnatic.
- **Third Anglo-Maratha War (1817-1818 A.D)** - Fought between English (Governor General Hastings) & the Marathas.British defeated Marathas.Formal end of the Maratha Empire.
- **First Anglo-Burmese War (1824-1826)** Fought between English East India Company & Burma.Ended in a British East India Company victory.
- **First Anglo-Afghan war (1839-42 A.D)** - British defeated Afghan ruler Dost Mohammad.

➤ **Battle of Cheeliana (1849 A.D)** - English East India Company under Lord Hugh Gough

defeated the Sikhs (under Sher Singh).

Ancient History Capsule For SSC & Railway Exams 2019

INDUS VALLEY CIVILIZATION IN INDIA

Ancient Civilizations in India

- The Indus Valley Civilization was an ancient civilization thriving along the Indus River & the Ghaggar-Hakra River in what is now Pakistan & north-western India.
- According to radio-carbon dating, it spread from the year 2500 – 1750 BC.
- R.B. Dayaram Sahni first discovered Harappa (on Ravi) in 1921. Rakhal Das Banerjee discovered Mohenjodaro or 'Mound of the Dead' (on Indus) in 1922. Sir John Marshall played a crucial role in both these.
- Harappan Civilization forms part of the proto history of India & belongs to the Bronze Age.
- Copper, bronze, silver, gold were known but not iron.
- The Indus-Valley people were well-acquainted with the use both of cotton & wool.

Domestication of animals:

- Stock breeding was important in Indus culture. Besides sheep & goats, dogs, humped cattle buffalo & elephant was certainly domesticated. The camel was rare & horse was not known.

Indus Valley Civilization Town Planning:

- Elaborate town-planning. It followed the Grid System. Roads were well cut, dividing the town into large rectangular or square blocks.
- Used burnt bricks of good quality as the building material. Elsewhere in the contemporary world, mud-bricks were used.
- In Mohanjodaro, a big public bath (Great Bath) measuring 12 m by 7 m & 2.4 m deep, has been found. Steps led from either end to the surface, with changing rooms alongside. It was probably used for ritual bathing.

Major Cities & Their Features:

- Mohenjodaro (Sind) is situated on the right bank of the Indus.
- Chanhudaro lies on the left bank of the Indus about 130 km south of Mohenjodaro.
- Kalibangan (Rajasthan) was on the banks of the river Ghaggar which dried up centuries ago.

- Lothal is at the head of the Gulf of Cambay.
- Banawali (Haryana) was situated on the banks of the now extinct Sarasvati River.
- Surkotada (Gujarat) is at the head of the Rann of Kutch.
- Dholavira (Gujarat) excavated in the Kutch district

Trade & Commerce in Ancient India :

- There was no metallic money in circulation & trade was carried through Barter System
- Weights & measures of accuracy existed in Harappan culture (found at Lothal). The weights were made of limestone, steatite, etc & were generally cubical in shape.
- 16 was the unit of measurement (16, 64, 160, 320).
- A dockyard has been discovered at Lothal. Rangpur, Somnath & Balakot functioned as seaports. Sutkagendor & Sutkakoh functioned as outlets.

Indus Valley Civilization Script :

- The script is not alphabetical but pictographic (about 600 undeciphered pictographs).
- The script has not been deciphered so far, but overlaps of letters show that it was written from right to left in the first line & left to right in the second line. This style is called 'Boustrophedon'

BUDDHISM IN INDIA

- Buddha Born in 563 BC on the Vaishakha Poonima Day at Lumbini (near Kapilavastu) in Nepal.
- His father Suddhodana was the Saka ruler.
- His mother (Mahamaya, of Kosala dynasty) died after 7 days of his birth. Brought up by stepmother Gautami.
- Married at 16 to Yoshodhara. Enjoyed the married life for 13 years & had a son named Rahula.
- Left his palace at 29 (with Channa, the charioteer & his favourite horse, Kanthaka) in search of truth (also called 'Mahabhinishkramana' or The Great Renunciation) & wandered for 6 years.
- Attained 'Nirvana' or 'Enlightenment' at 35 at Gaya in Magadha (Bihar) under the Pipal tree.
- Delivered the first sermon at Sarnath where his five disciples had settled. His first sermon is called

'Dharmachakrapravartan' or 'Turning of the Wheel of Law'.

- Attained Mahaparinirvana at Kushinagar (identical with village Kasia in Deoria district of UP) in 483 BC at the age of 80 in the Malla republic.

Buddhist Councils:

- The monks gathered 4 times after the death of Buddha & the effect of these events had their effect on Buddhism.
- **First Council:** At Rajgriha, in 483 BC under the chairman ship of Mahakassapa (King was Ajatshatru). Divided the teachings of Buddha into two Pitakas – Vinaya Pitaka & Sutta Pitaka. Upali recited the Vinaya Pitaka & Ananda recited the Sutta Pitaka.
- **Second Council:** At Vaishali, in 383 BC under Sabakami (King was Kalasoka). Followers divided into Sthavirvadins & Mahasanghikas.
- **Third Council:** At Pataliputra, in 250 BC under Mogaliputta Tissa (King was Ashoka). In this, the third part of the Tripitaka was coded in the Pali language.
- **Fourth Council:** At Kashmir (Kundalvan), in 72 AD under Vasumitra (King was Kanishka). Vice-Chairman was Ashwaghosha. Divided Buddhism into Mahayana & Hinayana sects.

Buddist Literature:

- Buddhist scriptures in Pali are commonly referred to as Tripitakas, i.e. 'Threefold Basket'.
- **Vinaya Pitaka:** Rules of discipline in Buddhist monasteries.
- **Sutta Pitaka:** Largest, contains collection of Buddha's sermons.
- **Abhidhamma Pitaka:** Explanation of the philosophical principles of the Buddhist religion.

JAINISM IN INDIA

- Founded by Rishabhanath.
- There were 24 tirthankaras (Prophets or Gurus), all Kshatriyas.
- First was Rishabhanath (Emblem: Bull).
- The 23rd Tirthankar Parshwanath (Emblem: Snake) was the son of King Ashvasena of Banaras. His main teachings were: Non-injury, Non-lying, Non-stealing, Non-possession.
- The 24th & the last Tirthankar was Vardhman Mahavira (Emblem: Lion).

Vardhman Mahavira History:

- He was born in Kundagram (Distt Muzaffarpur, Bihar) in 599 BC.
- His father Siddhartha was the head of Jnatika clan. His mother was Trishla, sister of Lichchavi Prince Chetak of Vaishali.

- Mahavira was related to Bimbisara.
- Married to Yashoda, had a daughter named Priyadarsena, whose husband Jamali became his first disciple.
- At 30, after the death of his parents, he became an ascetic.
- In the 13th year of his asceticism (on the 10th of Vaishakha), outside the town of Jrimbhikgrama, he attained supreme knowledge (Kaivalya).
- From now on he was called Jaina or Jitendriya & Mahavira, & his followers were named Jains. He also got the title of Arihant, i.e., worthy.
- At the age of 72, he attained death at Pava, near Patna, in 527 BC.

Note: In Jainism, three Ratnas (Triratnas) are given & they are called the way to Nirvana. They are Right Faith, Right Knowledge & Right Conduct.

History of Jain Councils:

- **First Council:** Held at Pataliputra by Sthulabhadra in the beginning of third century BC. It resulted in the compilation of 12 Angas to replace 14 Purvas.
- **Second Council:** It was held at Vallabhi (Gujarat) in the fifth century AD under the leadership of Devridhigani.

THE MAGADHA EMPIRE

- **Period of Magadha Empire:** 6th Century – 4th Century BC.
- **Extent of Magadha Empire:** Magadha embraced the former districts of Patna, Gaya & parts of Shahabad & grew to be the leading state of the time.
- **Haryanka Dynasty:** Originally founded in 566 BC by the grandfather of Bimbisara, but actual foundation by Bimbisara.

King Bimbisara of Magadha (544 BC – 492 BC)

- Contemporary of Buddha.
- His capital was Rajgir (Girivraja)
- His capital was surrounded by 5 hills, the openings in which were closed by stone walls on all sides. This made Rajgir

Ajatshatru History (492 BC – 460 BC):

- Son of Bimbisara killed his father & seized the throne.
- Buddha died during his reign; arranged the first Buddhist Council.
- **History of Udayin (460 – 444 BC):** He founded the new capital at Pataliputra, situated at the confluence of the Ganga & Son.

Shishunaga Dynasty:

- Founded by a minister Shishunaga. He was succeeded by Kalasoka (II Buddhist council).
- Dynasty lasted for two generations only.
- Greatest achievement was the destruction of power of Avanti.

Nanda Dynasty:

- Founder was Mahapadma Nanda.
- Alexander attacked India in their reign. Dhana Nanda was there at that time.

Alexander's Invasion of India

- Alexander (356 BC – 323 BC) was the son of Philip of Macedonia (Greece) who invaded India in 326 BC.
- At that time NW India was split up into a number of small independent states like Taxila, Punjab (kingdom of Porus), Gandhara etc.
- Except Porus who fought the famous battle of Hydaspes (on banks of Jhelum) with Alexander, all other kings submitted meekly.
- Except Porus who fought the famous battle of Hydaspes (on banks of Jhelum) with Alexander, all other kings submitted meekly.
- When Alexander reached Beas, his soldiers refused to go further, so he was forced to retreat.
- To mark the farthest point of his advance, he erected 12 huge stone altars on the northern bank of Beas.
- Remained in India for 19 months & died in 323 BC at Babylon.

THE MAURYAN DYNASTY

Chandragupta Maurya History (322 – 297 BC):

- With the help of Chanakya, known as Kautilya or Vishnugupta, he overthrew the Nandas & established the rule of the Maurya dynasty.
- Built a vast empire, which included not only good portions of Bihar & Bengal, but also western & north western India & the Deccan.
- This account is given by Megasthenes (A Greek ambassador sent by Seleucus to the court of Chandragupta Maurya) in his book Indica. We also get the details from the Arthashastra of Kautilya
- Chandragupta adopted Jainism & went to Sravanabelagola (near Mysore) with Bhadrabahu, where he died by slow starvation.

History of Bindusara (297 – 273 BC):

- Chandragupta Maurya was succeeded by his son Bindusara in 273 BC.
- He is said to have conquered 'the land between the 2 seas', i.e., the Arabian Sea & Bay of Bengal.

History of Ashoka (269 – 232 BC):

- Ashoka was appointed the Viceroy of Taxila & Ujjain by his father, Bindusara
- Ashoka became the Buddhist under Upagupta.

The Kalinga War History:

(261 BC, mentioned in XIII rock edict): It changed his attitude towards life. Ashoka became a Buddhist after that.

Causes of the fall of Mauryan Empire:

- Ashoka's patronage of Buddhism & his anti-sacrificial attitude is said to have affected the income of the Brahmins. So they developed antipathy against Ashoka.
- Revenue from agrarian areas was not sufficient to maintain such a vast empire as booty from war was negligible.
- Successors of Ashoka were too weak to keep together such a large centralized empire.

Note: The last Mauryan king Brihadratha was killed by Pushyamitra Shunga (Commander in Chief) in 185 BC, who started the Shunga dynasty in Magadha.

SANGAM AGE IN INDIA

History of Cholas:

- The kingdom was called Cholamandalam or Coromondal. The chief centre was Uraiyur, a place famous for cotton trade. Capital was Kaveripattanam/Puhar.
- A Chola king named Elara conquered Sri Lanka & ruled it over for 50 years.
- Karikala was their famous king.
- Main source of wealth was trade in cotton cloth. They also maintained an efficient navy.

THE GUPTA DYNASTY

Gupta Empire Golden Age of India

- On the ruins of the Kushan empire arose a new empire, which established its way over a good part of the former dominions of both Kushans & Satavahanas. The first two kings of the dynasty were Srigupta & Ghatotkacha.

Chandragupta I (AD 319 – 335):

- First important king of Gupta Dynasty.
- Started the Gupta era in 319-320 AD.
- He enhanced his power & prestige by marrying Kumara Devi, princess of the Lichchavi clan of Nepal.
- He acquired the title of Maharajadhiraj.
- Struck coins in the joint names of himself, his queen & the Lichchavi nation, thereby acknowledging his marriage alliance.

History of Samudragupta (AD 335 – 375):

- The Gupta kingdom was enlarged enormously by Chandragupta's son & successor Samudragupta.
- Samudragupta believed in the policy of war & conquest & because of his bravery & generalship he is called the 'Napoleon' of India (by the historian V.A. Smith).

History of Chandragupta – II (AD 380 – 413):

- Samudragupta was succeeded by Ramgupta but Chandragupta II killed him & married his queen Dhruvadevi.
- He was the first ruler to issue silver coins. Also issued copper coins.
- His court was adorned by celebrated nine gems (navratnas) including Kalidasa, Amarsimha, Varahmihir, & Dhanvantri.

- Chinese pilgrim Fahien visited India at this time.

History of Kumaragupta – I (AD 413 – 455):

- He adopted the title of Mahendraditya.
- Founded Nalanda University (a renowned university of ancient India).
- He was the worshipper of Lord Kartikeya (son of Lord Shiva).
- In the last years of his reign, the peace & prosperity of the empire was disturbed due to the invasion of Turko-
- Mongol tribe, Hunas. During the war with the Hunas, Kumaragupta died.

History of Skandagupta (AD 455 – 467):

- Kumaragupta-I was followed by Skandagupta.
- Restored Sudarshana Lake.
- After his death, the great days of the Guptas were over. The empire continued but central control weakened, & local governors became feudatory kings with hereditary rights.

Gupta Literature in India:

- Kalidas, the great Sanskrit dramatist, belonged to this period. His books are: Abhigyanashakuntalam, (considered as one of the best literary works in the world & one of the earliest Indian work to be translated into European language, the other work

being the Bhagavadgita), Ritusamhara, Meghadutam, Kumarasambhavam, Malavikagnimitram, Raghuvansha, Vikramurvasi etc. Out of these, Ritusamhara, Meghadutam, Raghuvansha were epics & the rest were plays.

- Vishakhadatta wrote Mudrarakshasa & Devichandraguptam
- Vishnu Sharma wrote Panchtantra & Hitopadesh
- The Gupta period also saw the development of Sanskrit grammar based on Panini & Patanjali
- Ramayana & Mahabharata were almost completed by the 4th century AD.

Other Dynasties & Rulers (7th Century–12th Century AD)

- History of Harshavardhana (AD 606 – 647)**
- Belonged to Pushyabhuti family & son of Prabhakar Vardhan.
- Originally belonged to Thaneshwar, but shifted to Kannauj (after Harsha's death Kannauj was won from Harsha's successors by the Pratiharas).
- Chinese pilgrim, Hieun Tsang (Prince of Travelers) visited during his reign.
- Harsha himself wrote 3 plays – Priyadarshika, Ratnavali & Nagananda.
- After the death of Harsha in 647, the empire once again broke up into petty States.
- I – tsing, another Chinese pilgrim, visited in 670 AD.

