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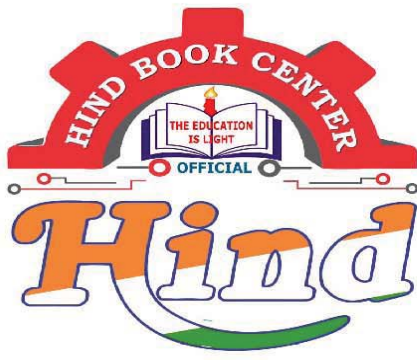
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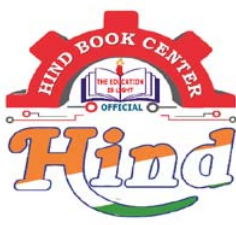
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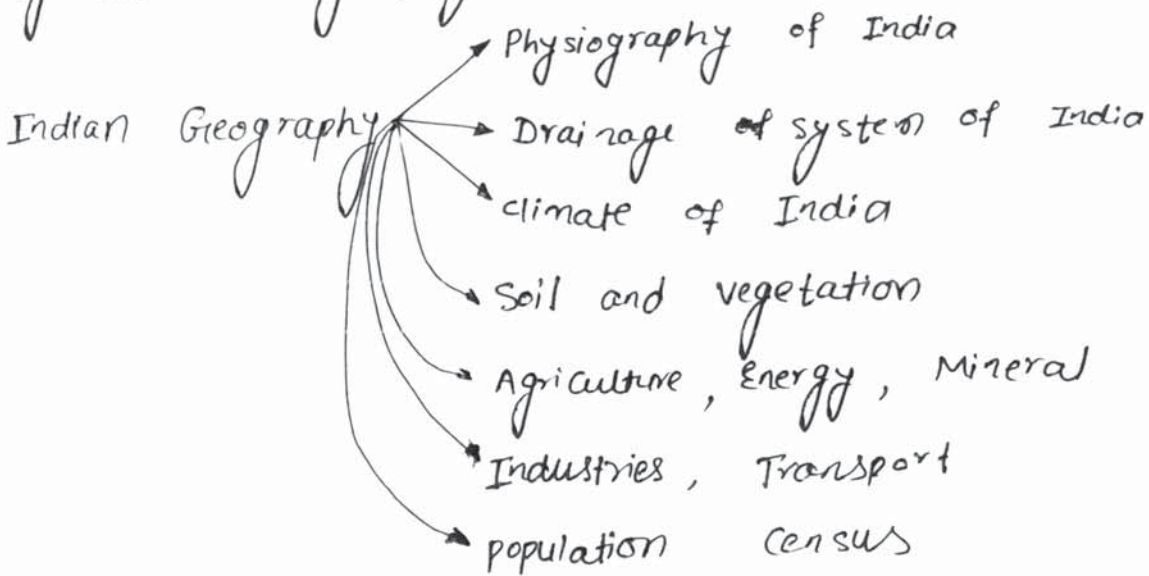
# Geography

[40 Hr]

by Vijay Tripathi

## Syllabus:

- a) Basics of Geography
- ~~or~~ <sup>imp</sup> b) Indian Geography → 60% Questions
- c) World <sup>Regional</sup> Geography (Mapping) (Atlas necessary)
- d) Physical Geography



## World Regional Geography (W.R.G)

→ 7 Continents + 5 Major ocean

- Mountain
- Hills
- Desert
- Rivers
- cities etc

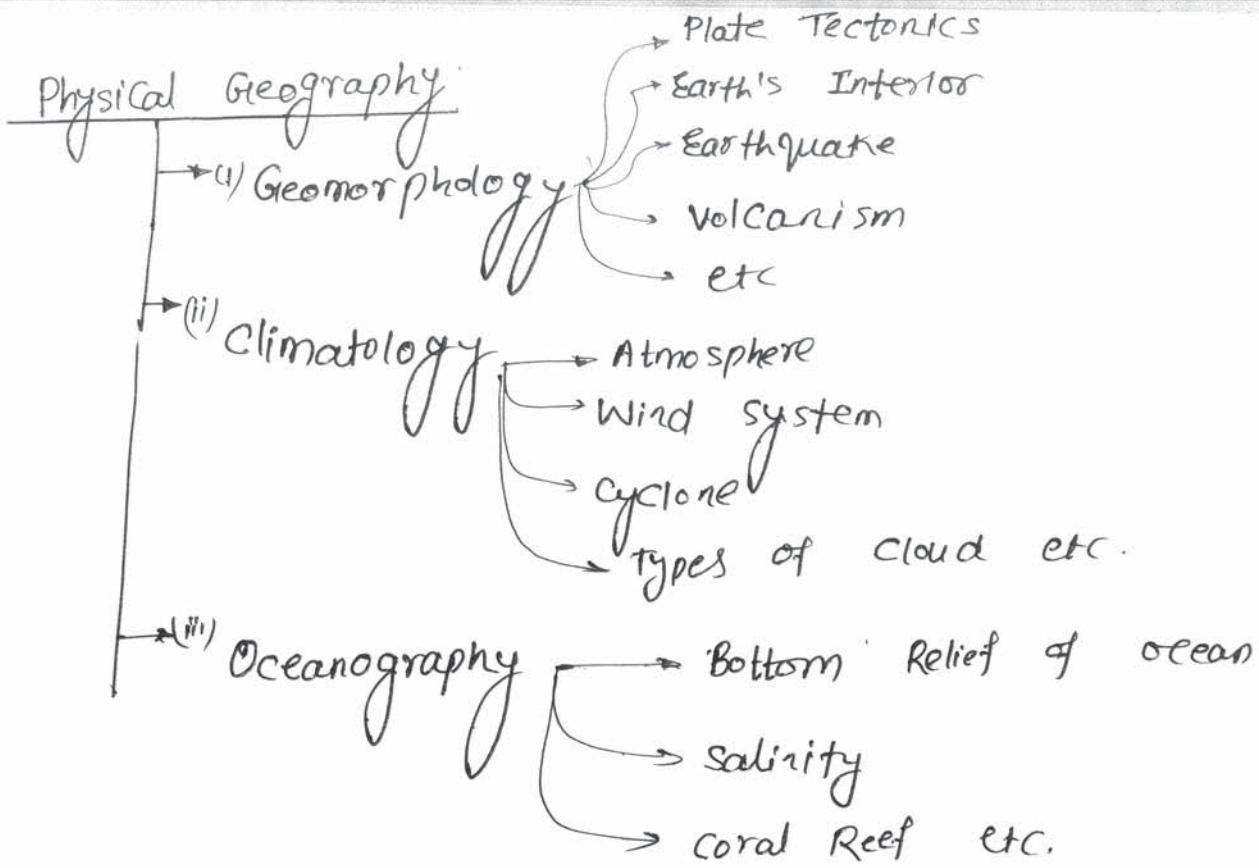
Atlas (Maps)

↓  
Oxford

Atlas

School

student ✓

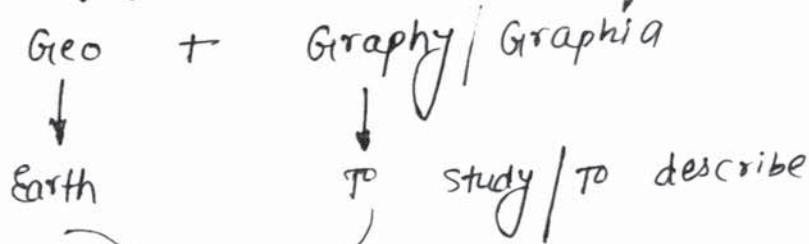


Source Material / Study Material

- (1) Class Notes
  - will cover in class
  - 10% ⇒ Pdf
- (2) Printed Material
- (3) P.Y. Q [Made-easy 3000 + objective Questions]
- (4) Oxford Atlas (student)

# Basic of Geography

Geography ?



To study about earth

Q Who has first coined the word "Geography" ?  
 Eratosthenes (Greek Scholar) coined the word geography 1st Time. He is considered Father of Geography.

But the real Father of Geography is "Hecateus."

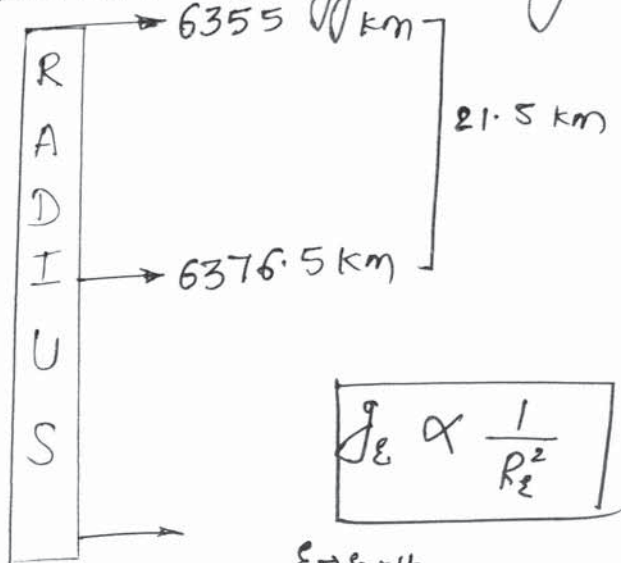
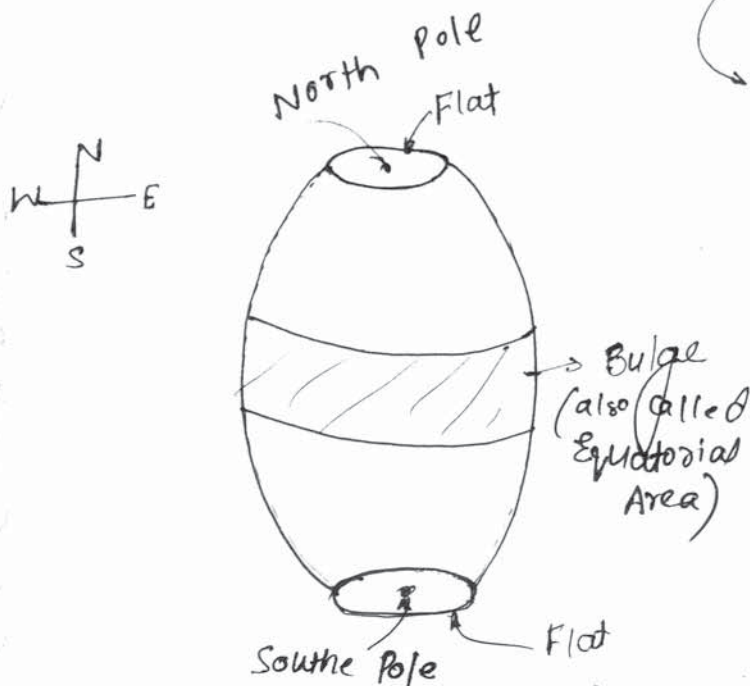
Q What is shape of earth ?

What is appearance of earth ?

Ans shape of earth is Geoid [oblate spheroid]

A type of sphere

Combination of egg & orange



Q What is Age of Earth?  
Ans Age of Earth is 4.5 billion year / 4500 million years

Q How age of Earth was calculated?  
Ans It was calculated with the help of Radioactive Dating / Radioactive elements.

### NOTE

Radioactive element  $\rightarrow$  38  $\begin{matrix} \text{U} \\ \text{Th} \end{matrix}$  Nuclear Fission  
(Rd) self decay / self-disintegration

U<sub>8</sub>  $\xrightarrow[\text{Nuclear fission}]{\text{self-disintegration}}$  Lighter element + Energy  
(heavier element)

\* Rd. element has life-cycle / life span

Q Why Carbon Dating is not used to calculate Age of Earth?

Ans Because 1st time life evolved around 550 million year ago in ocean then carbon came into existence.

\* Carbon Dating is used to calculate Age of civilization.

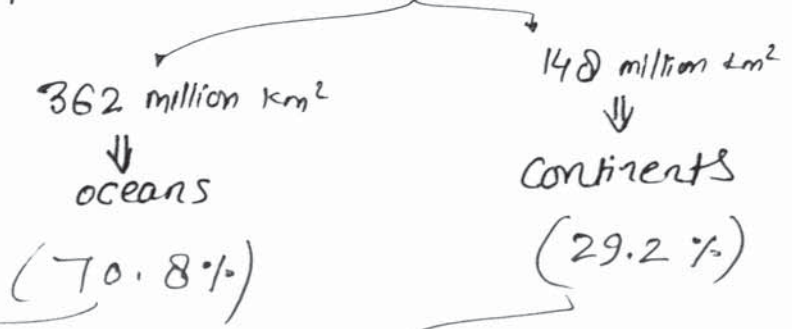
\* Homosapien evolved on the earth's surface around 2.5 million year ago in Ethiopia (Eastern Africa).



Q What is total surface Area of Earth?

Ans Total surface area of Earth is 510 million km<sup>2</sup>

ocean → water part  
 continents → land part



There are 5 Major Oceans on Earth

Area

+



- PAISA
- P = Pacific ocean
  - A = Atlantic ocean
  - I = Indian ocean
  - S = South/southern ocean
  - A = Arctic ocean

There are 7 Continents on the Earth

⇒ Descending order of Area

- 1) Asia
  - 2) Africa
  - 3) North America
  - 4) South America
  - 5) Antarctica
  - 6) Europe
  - 7) Oceania [Australia + surrounding island]
- <sup>90%</sup> largest island  
<sup>10%</sup>

Latitude & Longitude

↻ West to East (Anticlock)

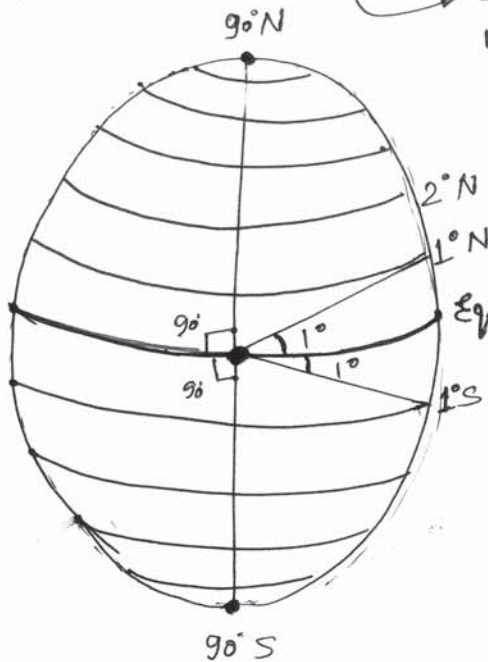


Q Why Latitudes & Longitudes were drawn on the Earth's surface?

Ans Mainly to find out exact address of any location on earth's surface.

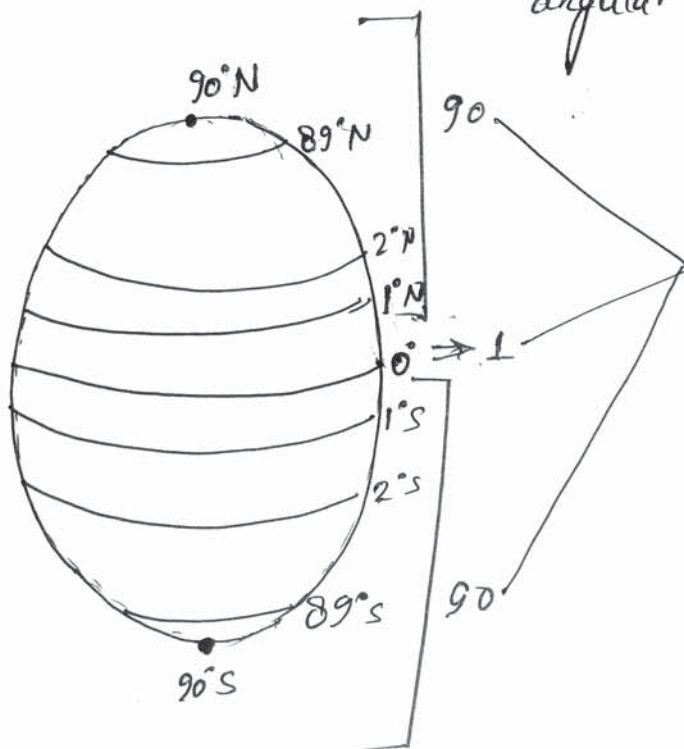
Q What is Latitude?

Latitude is an imaginary circle which represents angular distance from Equator either north or south



Equator (largest possible imaginary circle which can draw on Earth surface) → It is also known as Great Circle

It divide Earth into two equal half that's why it is taken as reference to measure angular distance of other latitude

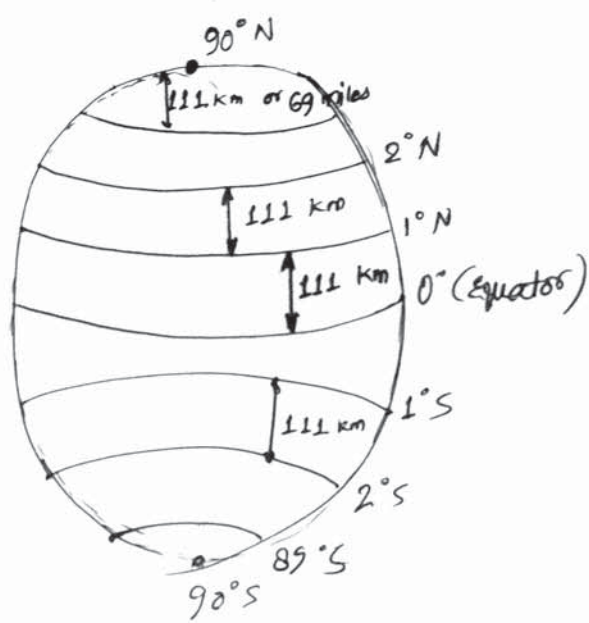


$$90 + 1 + 90 = 181$$

↓  
latitudes

$$\text{Latitude lines} = 181 - 2 = 179$$

for both North & South poles



Latitude are located at equal distance from each other & it's absolute value is 111 km / 69 miles

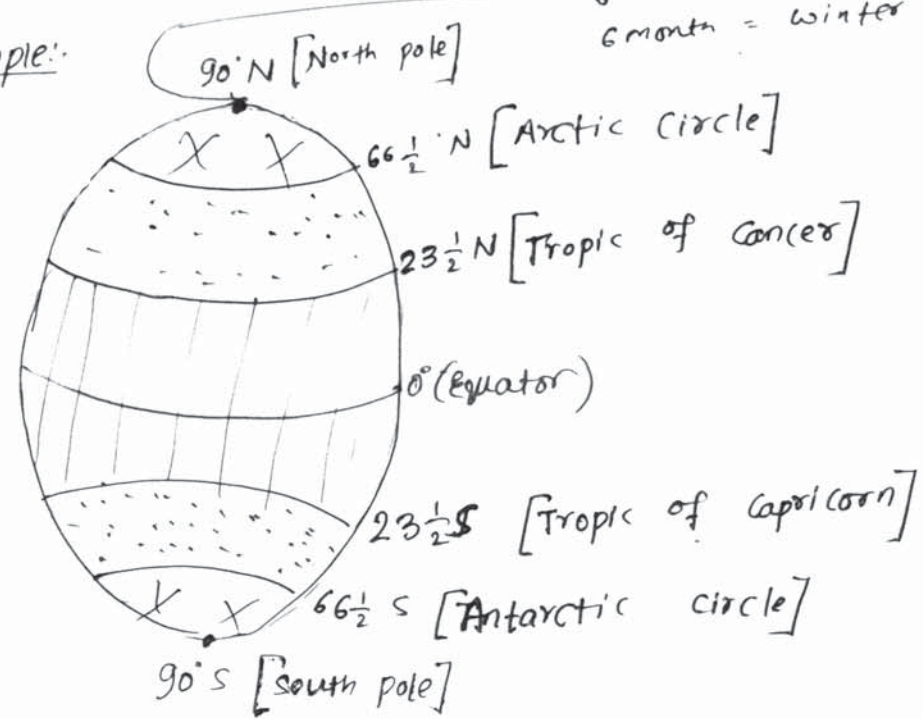
Latitudes are also known as parallel because they are parallel to each other.


### Application of Latitudes


\* Latitudes ~~are~~ <sup>were</sup> used by Greek scholars to demarcate boundary of climatic zones on the Earth's surface.

6 month = summer days  
6 month = winter night

For example:

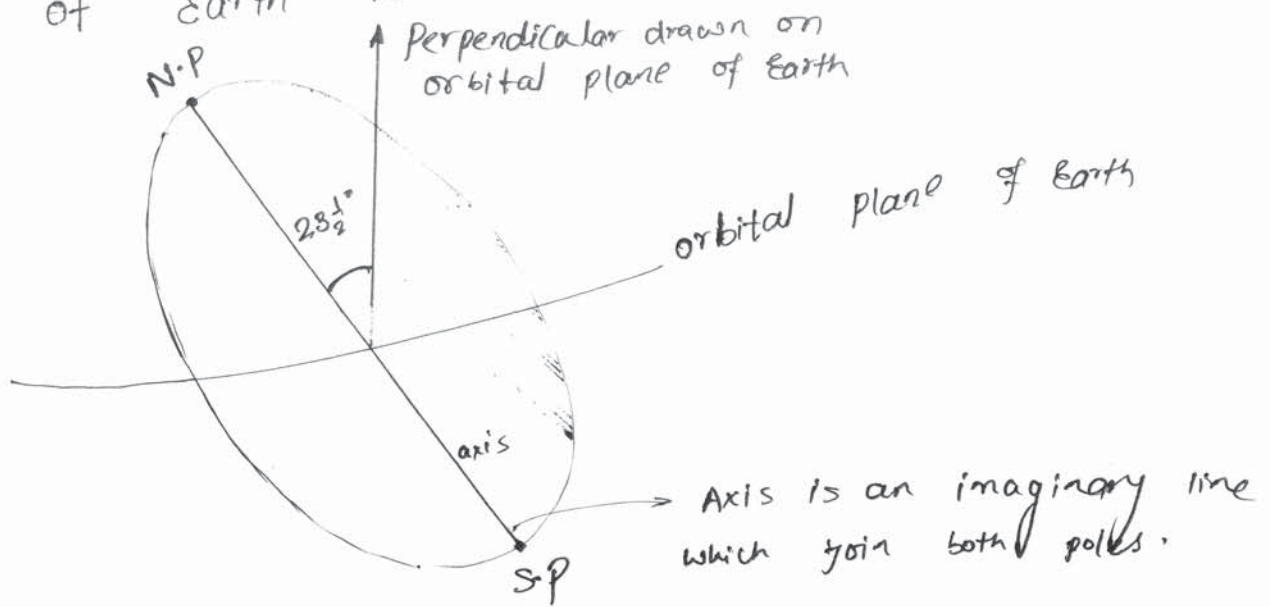


 Torrifid zone or Tropical zone  
→ warm/hot

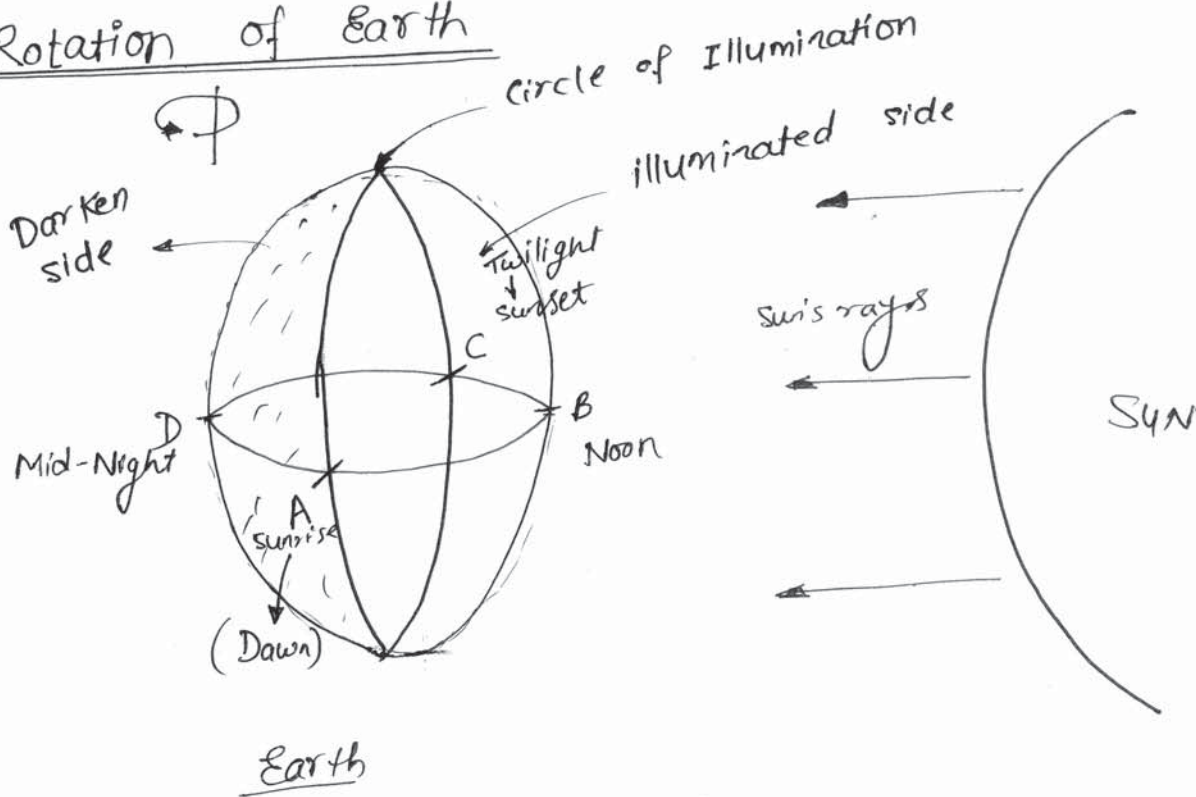
 Temperate zone

 Frigid zone

Q Axis of Earth is inclined  $23.5^\circ$  from where?



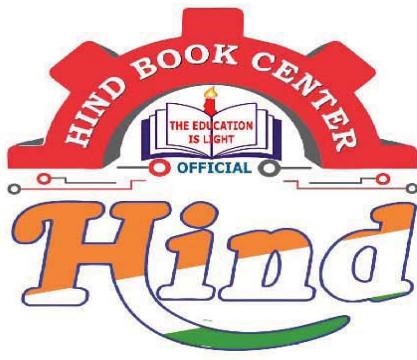
### Rotation of Earth



### Consequences of Rotation of Earth

- i) Occurance of Day & Night
- ii) Blowing of winds
- iii) Formation of Tide (उत्तर) & ebb (शुक्ल)





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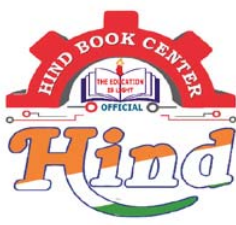
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# History

Derived from *Historia* (Greek word)

Written Record of past

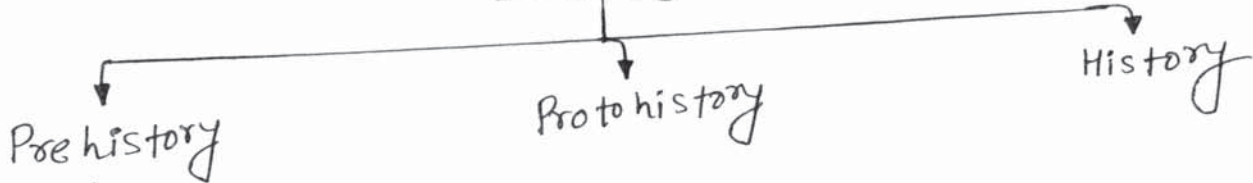
It is a chronological study of all significant human events of past.

\* First Historical book of country is *Rajatarangni* written in Sanskrit Lang. by Kalhan. This from 600 BC - 1200 AD

\* First Historical Book of world is "Histories" written in Greek Lang. by Herodotus.

So, Herodotus is known as Father of History. "Histories" describe the history of Greece & persia of the 5th cent. BC.

## History



No written Record of past.

⇒ C-14 ⇒

BC = Before christ

AD = Anno domini ⇒ After Birth of christ.  
(Latin word)

Dionysius Exiguus

first time use AD

BCE = Before Common Era

CE = Common Era

- \* Remains of
  - Tools of stone
  - Potteries - clay
  - Painting - Caves
  - skeletons of human beings and animals

BC/BCE	AD/CE
2000 BC	2022 CE/AD
1999 BC	2020 CE/AD
1998 BC	2010 CE/AD
1 BC	2000 CE/AD

Example

① 261 BCE/BC

$$\begin{array}{r}
 2022 \text{ CE/AD} \\
 + 261 \text{ BCE} \\
 \hline
 2283 \text{ year ago}
 \end{array}$$

② 1942 CE

$$\begin{array}{r}
 2022 \text{ CE/AD} \\
 - 1942 \text{ CE/AD} \\
 \hline
 1180 \text{ year ago}
 \end{array}$$

### Calendars:

1) Vikram Samvat (Era)  
57 BCE by king Vikramaditya, king of Ujjain

2) Shaka Samvat (Era)  
78 CE by Kanishka, king of Kushan dynasty

3) Gupta Samvat (Era)  
320 CE by Kushan dynasty, Chandragupta-I  
king of Gupta dynasty

4) Hijari Samvat:  
622 CE - on the memory of migration of  
prophet Mohammad, Sahab, founder of Islam.  
who migrated from Mecca to Madina.



Question: Vikram Samvat in 2022

2022 CE/AD  
+ 57 BCE

2079 Vikram Samvat

\* Indian National government adopted Shaka Samvat as a calendar in 1957.

Question: Shaka Samvat in 2022

2022 CE  
- 78 CE

1944 S.S

Proto history :- Have written Record but not deciphered by anyone.

\* Deciphered

\* Indus valley civilization is Proto history

\* Indus valley civilization is pictorial script but not read by anyone.

History :-

\* Have written Record and also able to read.

Sources of History:

1) Archaeological source

i) Inscription

ii) coins

iii) Monuments

2) Literary source

3) Travelling Accounts

Pillar

(i) Royal orders

(ii) Proclamations & commitments

(iii) Eulogies (achievements)

• i) Inscription :

- \* First inscription was Ashoka's inscription which was deciphered by James Prinsep in 1837.
- \* Ashoka's inscription which was first time read by James Prinsep is Maski (Karnataka) inscription.
- \* Study of Inscription is called epigraphy.
- Ashoka's inscription was written in 3 language
  - i) Prakrit Language → official lang. of Maurya Empire
  - ii) Greek Language
  - iii) Aramaic language
- & 3 scripts were also used
  - i) Brahmi script → official script of Maurya Empire
  - ii) Kharoshthi script
  - iii) Aramaic script

ii) Coins :-

\* Collection & study of old coins is called Numismatics

black soft shining stone  
blunt clay stone

Coins of India	Name of coins	Metal of coins	Issued by whom
1) Coin of Indus valley civilization	X	Steatite & Terracotta	Traders
2) Coin of Vedic Age	Nishka	Jewellery, cow	Vedic People
3) First metal coin of India is called (600 BCE)	Punch marked	silver	Traders and later on Rulers

Coins of India	Name of Coins	Metal of coin	Issued by whom
4. Maurya Age	Pann	Silver	Rulers of Maurya <del>Traders</del> Dynasty
5. Indo - Greek first time issued Gold coin in India	Stater → Gold coin Drachama → Silver		Rulers of Indo Greek
6. First time pure Gold coin was issued in India	Dinar	Gold	Vima Kadaphise, king of Kushan dynasty
7. Coins of Gupta dynasty	Dinar → Gold Rupaka → Silver		A large no. of gold coins were issued by Kumar gupta first, king of Gupta dynasty. Pictures of Garuda bird, Ashvamedha Yajna & playing of veena, <del>slayer of</del> slayer of <del>his</del> were depicted on coins. <sup>of Samudra Gupta</sup>
8. Coins of Satavahana dynasty	Satakarni Pulumavi } →	Lead, potin, silver, copper	Rulers of Satavahana dynasty ↓ ships were depicted on coins of Yajna Sri Satakarni, King of Satavahana. * Arched Hill or chaity was depicted on coins of Gautami-putra Satakarni.
9. Coins of Chera dynasty	Punch marked (Elephant on one side & Arrow & bow on other side).	Copper	Chera dynasty
10. Pandya dynasty	punch marked	Copper, silver, Gold	rulers Pandya Kingdom
11. Chola dynasty	Madai	Gold, Copper, silver	Rulers of Chola dynasty
12. Coins of Delhi sultanate	Tanka → Silver Jital → Copper Adali → Gold Dirhaham → silver Token Currency → Copper & Brass		King of Delhi sultanate Rulers of Delhi sultanate by Muhammad Bin Tughlaq

	Coins of Delhi sultanate	<p>Addha → 50% Silver 50% Copper</p> <p>Bikha → 25% Silver 75% Copper</p> <p>Shashagari</p>	<p>Firoz shah</p> <p>Tughlaq</p>	
13	Babur, founder of the Mughal Empire	shaharukhi	silver	by Babur
14	Humayun	shaharukhi	silver	by Humayun
15	sher shah suri's coins	<p>Asharfi → Gold</p> <p>Rupaiya → silver</p> <p>Daam → copper</p> <p>willam sikandari → mixed metal coin ₹</p>		by shershah suri
16	AKbar's coin	<p>Mohar → Gold</p> <p>Rupaiya → silver</p> <p>Daam → copper</p> <p>Jalali → silver</p> <p>Ilahi → Gold</p> <p>Shahanshah <del>₹</del> → Big Gold coin</p> <p>Fulus → copper</p> <p>Damari → copper</p>		By Akbar
17	Maratha's or shivaji's coin	<p>Hali sicca → copper</p> <p>chandoshi Rupaiya → silver</p>		
18	coins of vijayanagar Empire	Pagoda (swami pagoda) → silver		By Rulers of vijay nagar Empire
19	British coins	<p>Rupiya → silver</p> <p>Aana → copper</p>		
20	Coins of Independent India	<p>INR → cotton paper</p> <p>Paise → stainless steel</p>		by R. B. I

(iii) Monuments:

Study of Monuments are called Archaeology.

Literary Source

- Religious books
  - Vedas
  - Epics
  - Purana
  - Buddhist
  - Jain

Niti shastra  
 Arthshastra  
 Sangam literature of South India.  
 Rajatarangini

James Mill

The history of British India  
 (Book of James Mill in which Indian history divided into 3 parts)

- i) Hindu Age
- ii) Muslim Age
- iii) British Age

James Mill divided Indian history on the basis of  
~~Param~~ Imperial Paramountcy and religious affiliation.

Indian History:

- 1) Ancient History (Stone Age - 700 CE)
- 2) Medieval History (700 CE - 1707 CE)
- 3) Modern History (1707 - 1947 CE)

on the basis of socio-economic <sup>life</sup> and changing in political, technological, cultural life (language & literature).

\* Stone Age \_\_\_\_\_ to \_\_\_\_\_ 1947 CE

## Stone Age

(20 Lakh years ago — 4000 BCE)

Earth formed 4.6 millions year ago.

Indian sub continents rifted from Gondwana Super

Continent.

South Africa  
→ Hominid (Like man)

↳ Naal River, Bikanar Rajasthan.

\* Robert Bruce foot first time explore the stone, weapons in the India.

\* Hence ~~Robert~~ Robert Bruce foot is called as father of Prehistory of India.

\* John Lubbock came in India & studies different stone weapons (tools) & divided stone age into two types (Age) (1865).

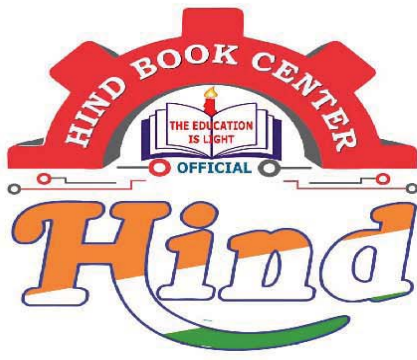
1) Palaeolithic Age

2) Neolithic Age

\* Hodder Westropp came in India in 1866 & he also studied Stone tools & divided stone age into ~~two~~ <sup>another</sup> age.

3) Microlithic Age or Mesolithic Age

4)



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# Polity

xx

→ Polity is derived from Politeia

Father of  
polity

Aristotle

Book

Politics

→ Concept of ideal states

different forms of Govt.

Citizenship & theory of Constitution.

is a set of rules,

which is given to guide organization, Government  
association how to work.

## Constitution

### ① Regulating Act 1773

- Under this act Governor of Bengal was abolished & Governor-General of Bengal was created.
- Under this act external affairs, defence & communication of Madras, presidency & Bombay were given to the Governor-General of Bengal.
- Under this act British establishment of Supreme Court in India was announced. 1st Supreme Court was established at Calcutta in India in 1774.
- 1st Chief Justice of Supreme Court of Calcutta was Sir Eliza Impey.
- Under this act 4-member Council was set up which helped the Governor-General of Bengal.
- for, 1st time Constitution of India was laid in India.  
foundation of

### ② Pitt's India Act 1784

- Under this act Board of Control & Court of Directors were setup in India.
- British Govt. established double Govt. in India.

## Charter Act 1793

- Monopoly of the East India Company was extended for 20 yrs more.

## Charter Act 1813

- Monopoly of the East India Company in the trade & commerce of India ~~tea & opium~~ except Opium was abolished.
- Under this act for 1<sup>st</sup> time 1 lakh rupees was granted for development of modern education in India.
- Under this act Christian missionaries were allowed to propagate Christianity in India.

## Charter Act 1833

- Under this act post of Governor-General of Bengal was abolished & new post Governor-General of India was inacted. Lord William Bentick became the 1<sup>st</sup> Governor-General of India.
- His Council was known as Council of India.
- Under this act monopoly of the E. India Comp. in the trade of tea & opium was also abolished.
- Ten lakh rupees was granted for development for modern education in India.

## Charter Act 1853

- Under this act functions of Council of India of Governor-General was divided into legislative & executive function.
- For 1<sup>st</sup> time legislative Council & executive Council were setup in India.
- members of central legislative Council were nominated from Bengal, Madras, Bombay & Aggra.
- Indian civil service examination was opened for all on the basis of competition.

## Indian Govt. Act 1858 (ACT OF 1858) —

- Under this act power of India was transferred from the East India Comp. to the British Crown.
- Board of Control and Charter Act of 1800 were abolished. Thus double government of India was abolished.
- Queen of England became the Empress of India.
- post of Governor-General of India was abolished & to new posts namely Viceroy & Secretary of State for India were created.
- 1st Viceroy of India was Lord Canning & 1st Secretary of State for India was Lord Stanley.
- 15 members council was setup to help the Secretary of State for India.
- Doctrine of lapse was abolished. VOB and Princely States of India accepted suzerainty of the British Gov. under subsidiary alliance.

## Indian Council Act 1861

- Portfolio under this act portfolio system was introduced in the executive (assembly) Council. Under this system separate subjects namely Revenue, Police, Finance, Law, Public Law and Home Affairs were given separately the members of executive Council.

## Indian Council Act 1892

- Members of central legislative assembly were limited from provinces, Bengal Chamber of Commerce, universities, Boards, Municipalities, Zamindars etc. On the recommendation of Governors of provinces.
- ✓ 1st time indirect election was started under this act.

- ✓ for 1st time parliamentary system was introduced.

## Indian Council Act 1909 / Morley Minto Reform 1909

- for 1st time right to separate electorate was given to Muslim community.
- Seed of communalism sown for 1st time in this act.
- ✓ Divide & Rule policy was adopted by the British Govt.

## Indian Council Act 1919 / Montague Chelmsford ... Reform 1919

- Under this act dyarchy system was introduced in india.
- Under this system subjects of india were divided into reserved subjects & transferred subjects.  
Subjects namely defence, external affairs, communication, post office, railways were kept under reserved subjects & controlled by the central govt. & transferred subjects namely agriculture, irrigation, health, forest etc. were kept under transferred subjects & controlled by provincial govt.
- Right to separate electorate was given to minorities namely sikh, christian, Buddhist etc.

## Act of 1935

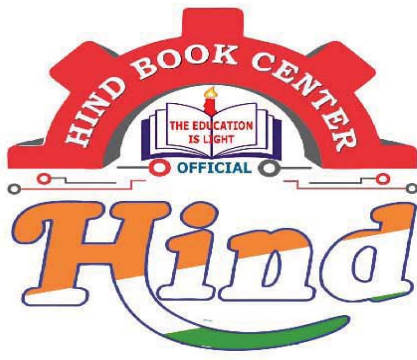
- Under this act federal structure was established in india.
- More autonomy was given to provinces of india.
- More power was given to governors of provinces.
- Federal court was established in 1937 at Delhi.
- Federal Bank (Imperial bank / Reserve Bank of India) was established in 1935 at Bombay.
- Civil Service Commission was setup strengthened.
- Bureaucracy was strengthened.
- Instrument of Accession Document was for 1st time introduced which helped india in the unification after independence.

## Cabinet Mission - 1946

- Under the recommendation of Cabinet Mission Constituent Assembly was established on 6 Dec. 1946.
- 1st meeting of C.A. was held on 9 Dec. 1946.
- 389 members including 93 members of princely states participated in the meeting of C.A. (Constituent Assembly).
- After independence of india Constituent Assembly held in 1947. Dr. Sachidanand Sinha became acting President of C.A. later on Dr. Rajendra Prasad

came to india for formation of Constituent Assembly & frame of constitution.

- became president of Constituent Assembly (C.A).
- H.C. Mukherjee became vice-president of Constituent Assembly.
  - Drafting Committee was formed & meeting was held on 29 Aug. 1947 under the chairmanship of Dr. B.R. Ambedkar. There were 7 members including chairman of Drafting Committee.
  - Drafting Committee took 2 yrs 11 months & 18 days to frame the constitution of India.
  - Constitution was produced in the Constituent Assembly on 26 Nov. 1949. C.A has adopted constitution on 26 Nov. 1949 with 284 members signature.
  - The constitution of India was implemented on 26 Jan. 1950 in India.
  - Dr. Rajendra Prasad became the 1st president of Republic India.
  - ✓ 26 Nov. is observed as constitutional day.
  - ✓ 26 Jan. is observed as Republic day.
  - Dr. B.R. Ambedkar is known as father of Indian Constitution.
  - 64 lakh was spent in the formation of Indian Constitution.
  - Indian Constitution had originally 395 articles, 8 schedules & 22 parts.
  - Presently, Indian Constitution has 448 articles, 12 schedules & 25 parts.



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# Physics

xxx

J.M.S

xxx

Quantity :- Any measurable thing which expressed in number is called Quantity.

## Quantities

Scalar Quantities

vector Quantities

### ① Scalar Quantities :-

→ Those quantity which have magnitude only for their expression are called scalar quantities.

ex: mass, Length, speed, Temp, Age, population, work, Energy, density, viscosity, time, Electric current, Area, Vol. etc.

### ② vector Quantities :-

→ Those quantity which have magnitude & direction both for their expression are called vector quantities.

ex :- Velocity, height, force, momentum, displacement, Torque, accel, gravity etc.

### Systems for units :-

(i) C.G.S (Centimeter, gram, sec. system)

→ It is also called French or matrix system of units.

(ii) F.P.S (Foot, Pound, sec system)

→ It is also called British system of units.



③ M.K.S ( Meter, Kilogram, ~~Standard~~ Sec. System)

④ S.I ( System international )

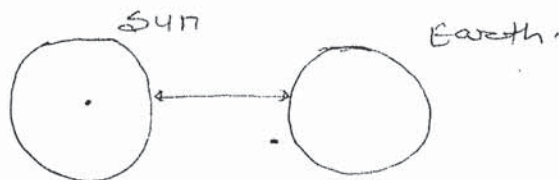
→ It is the improved & extended form of MKS ~~of~~ System in 1960 at Geneva (Switzerland)

→ These are seven (7) fundamental & two supplementary units in SI System.

S.N	Quantity	S.I unit	Symbol	
1.	Length	meter	m	} <u>fundamental Quantity.</u>
2.	mass	Kilogram	kg	
3.	Time	second	s	
4.	Temp.	Kelvin	K (°) 0	
5.	Electric current	Ampere	A	
6.	Luminous intensity	<u>candela</u>	cd	
7.	Amount of substance	mole	<u>mol.</u>	
①	Plane angle	radian	rad.	
2.	Solid angle	steradian	sr.	

Astronomical units of distance

① Astronomical unit (AU) :- It is the unit of distance, which is the <sup>mean</sup> distance b/w earth and Sun.



$$1 \text{ AU} = 1.495 \times 10^{11} \text{ meters}$$

② Light year (LY) :- It is also the unit of distance which is the distance travelled by light in vacuum in one year.

$$1 \text{ LY} = 3 \times 10^8 \times 60 \times 24 \times 365 \\ = 9.46 \times 10^{15} \text{ meters}$$

③ parsec (parallax-second) = PS

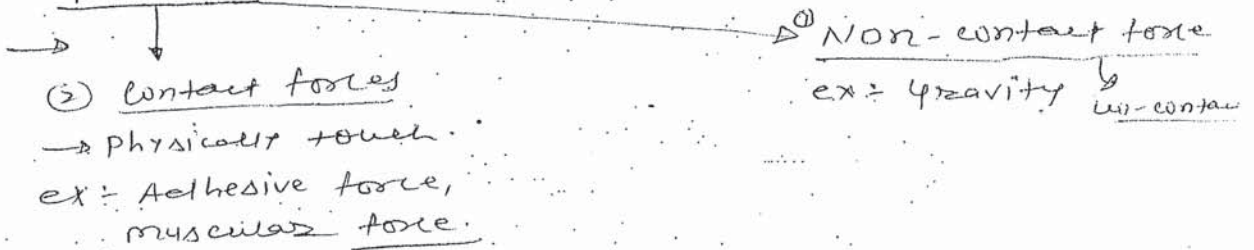
→ It is the largest unit of distance among all astronomical unit of distance.

$$1 \text{ PS} = 3.08 \times 10^{16} \text{ meters}$$

$$1 \text{ LY} = 48612 \text{ AU}$$

$$1 \text{ PS} = 3.26 \text{ LY}$$

Force :-



① Adhesive force :-

→ The force which act b/w different types of molecule is called Adhesive force.

ex:- (i) Attachment of glistics with paper.

(ii) Adhesive tape

(iii) Fajizwik, Farikot.

(iv) Cosmetic products etc.

② Cohesive force :-

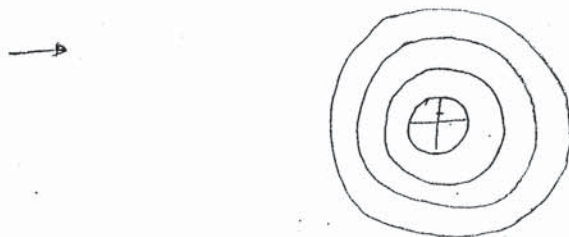
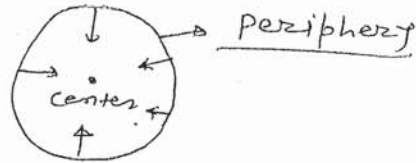
→ The force which act b/w same type of molecules.

ex:- strength of metal rod, surface tension, etc.

### ③ Centripetal force :-

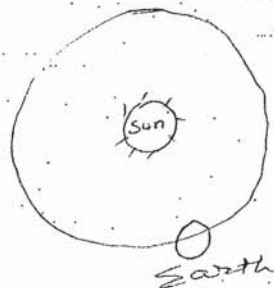
→ During circular motion, a force act from ~~the~~ periphery to the centre of path is called centripetal force.

ex :- (i) Roads & Railway tracks are banked at a turn to obtained the required centripetal force.



→ Revolution of electrons around the nucleus is based upon electrostatic force of attraction is called centripetal force.

(iii)



→ Revolution of earth around the sun is based upon gravitational force of attraction which act as centripetal force.

### ④ Centrifugal force :-

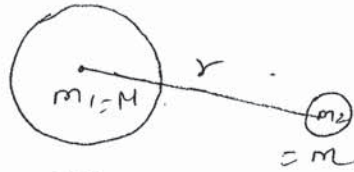
→ During circular motion, a force act from center to the periphery of path is called centrifugal force.

→ It is not a new force, it is pseudo force, which is always equal & opposite to centripetal force to each other.

ex :- (a) centrifugal machine, washing machine, cream separator, churner, grinder, mixer etc.

### ⑤ Gravitational force :-

- The attractive force which act b/w two bodies is called gravitational force of attraction.
- It is based on mass of the objects & distance b/w them.



$$F \propto m_1 m_2 \quad \text{--- (i)}$$

$$F \propto \frac{1}{r^2} \quad \text{--- (ii)}$$

→ from (i) & (ii)

$$F \propto \frac{m_1 m_2}{r^2} \quad \text{--- (iii)} \quad \gamma = \text{Gravitational constant}$$

$$F = \frac{\gamma m_1 m_2}{r^2} \quad \text{--- (iv)}$$

$$= 6.67 \times 10^{-11} \text{ N m}^2 / \text{kg}^2$$

$$F = \frac{\gamma M m}{r^2} \quad \text{--- (iv)}$$

Relation b/w g &  $\gamma$

$$F = m a \quad \text{--- (v)}$$

$$F = m \cdot g \quad \text{--- (vi)}$$

→ from eq<sup>n</sup> (vi) & (iv)

$$F = \frac{\gamma M m}{r^2} = m g$$

$$g = \frac{\gamma M}{r^2}$$

→ The avg. value of  $g = 9.8 \text{ m/s}^2$

→ At the pole of the earth, there is the max<sup>m</sup> gravity,  $g = 10 \text{ m/s}^2$ .

→ At the center of earth, there is zero (0) gravity.

→ Mass is constant every where, but  $g$  is variable.

→ The wt. of an object will be max<sup>m</sup> at the pole of the earth, because there is max<sup>m</sup> gravity.

- The wt. of an object will be zero at the center of earth, because there is zero gravity.
- At the surface of moon the wt. of an object will be  $\frac{1}{6}$ th, ~~because there is~~ compare to the earth because there is  $\left[\frac{1}{6}\right]$ th gravity.
- Astronauts feel weightless in space, because there is zero (0) gravity.
- There are following factors for a falling body:-

- (i) Density
- (ii) Surface area
- (iii) Air resistance

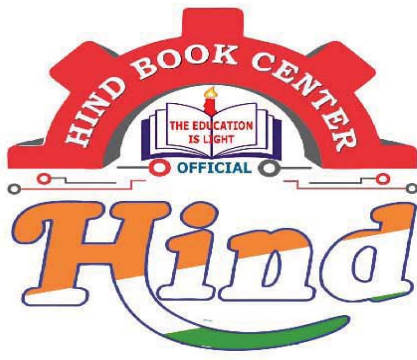
(Note:- Aeroplane design used to Bernoulli's principle & above factors used.

Ques. If a feather and a stone with same weight are dropped from the same height at the same time in vacuum:-

→ then both will reach to the ground at the same time.

Que. If a ball of iron & wooden ball with same weight are dropped from the same height at the same time:-

→ then iron ball will reach 1st to the ground, because the density of iron ball is more than wooden ball.



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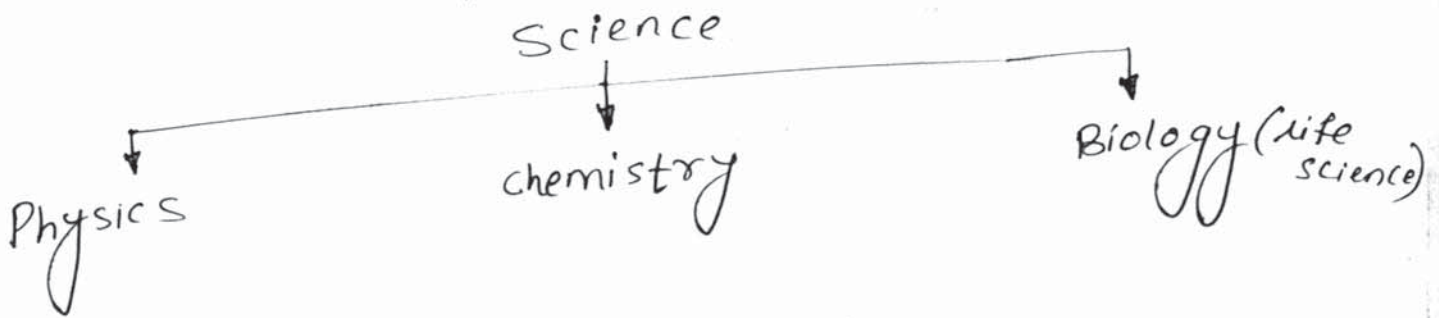
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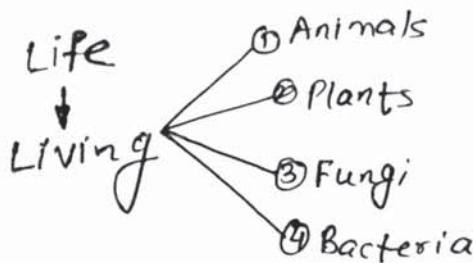
# General Science

Aristotle → Father of science



## Life science (Biology)

The study of life is called life science (Biology)



### NOTE:~

Virus are the connecting link b/w living & non-living things.

## Life science (Biology)

*Father of Biology*  
*Aristotle*

Zoology  
Father → Aristotle

Book written by Aristotle  
→ *Historia Animalis*  
(500 species of Animals)

Botany (Phytology)  
Father → Theophrastus

Study: Plants  
Book written by Theophrastus  
→ *Historia Plantarum*  
(500 species of plants)



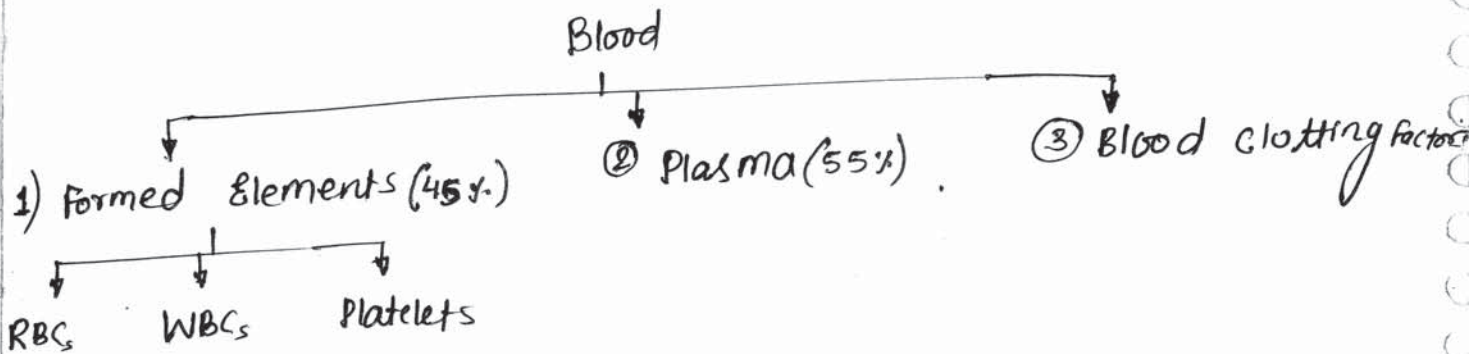
## Blood :-

The study of Blood is called Haematology.

pH Value = 7.4 (slightly basic/alkaline)

↓  
(7.35 - 7.45)

- \* Our Blood is the fluid connective tissue
- \* Blood has higher density as compare to the water
- \* Blood helps to maintain body temperature.
- \* Blood also helps in the transportation of materials.
- \* 6-8% blood is present as compare to the whole body.



## RBCs (Red Blood Cells/corpuscles)

- \* Also called Erythrocytes
- \* Nucleus absents in RBCs of all mammals except Camel, Llama, Llama, Buffalo, Yak (yak)
- \* RBCs help in the Transportation of gases in our body. ( $O_2$  &  $CO_2$ )
- \* 45 - 55 Million RBCs per  $mm^3$  of Blood.

\* RBCs appear red due to presence of Haemoglobin (Hb)

(Complex protein)

\* 12 - 18 gm of Haemoglobin present in our per 100 ml of blood.

\* Haemoglobin (Hb) contain Iron ( $Fe^{2+}$ )  
↓ Ferrous

\* Deficiency of Iron in our body causes Anaemia.

\* Excess amount of Iron in our body causes "Siderosis ~~disease~~ disease".  
↓  
Also called "Welder's disease".

\*  $Hb + O_2 \longrightarrow$  oxyhaemoglobin

$Hb + CO_2 \longrightarrow$  carbamino haemoglobin.

$Hb + CO \longrightarrow$  carboxyhaemoglobin.  
↓  
Carbon monoxide

NOTE:

Carbon monoxide has higher affinity with Haemoglobin as compare to the oxygen (> 200 - 300 times)

\*  $Fe^{2+}$   $\xrightarrow{\text{Ferrous}}$  present in Normal Person.

If  $NO_3^-$  (Nitrate) present in excess amount in the body then that cause the Methaemoglobinemia (Blue Baby syndrome) disease.

Normal Person ( $\text{Fe}^{2+}$ )  $\rightarrow$  Ferrous

$\downarrow$   $\text{NO}_3^-$  Excess

$\text{Fe}^{3+}$  (Ferric)  $\rightarrow$  Blue Baby syndrome

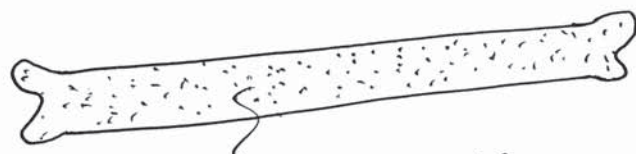
Q What is the main cause of Methaemoglobinemia (Blue Baby syndrome)

a) Excess  $\text{Fe}^{2+}$       b) Excess  $\text{Fe}^{3+}$       c) Excess  $\text{NO}_3^-$

d) Lacking of  $\text{O}_2$

\* The life span of RBC is 120 days (4 months)

\* Formation of RBCs occurs in our <sup>Red</sup> bonemarrow.



Red bonemarrow

\* Breakdown of RBCs is called "Erythrolysis".

\* Breakdown of RBCs occurs in our spleen & Liver

Graveyard  
of  
RBCs

Also  
called  
"Blood Bank"  
of our body

\* Shape of RBC is Biconcave (II)

\* Deficiency of oxygen in atmosphere that is called "hypoxia."

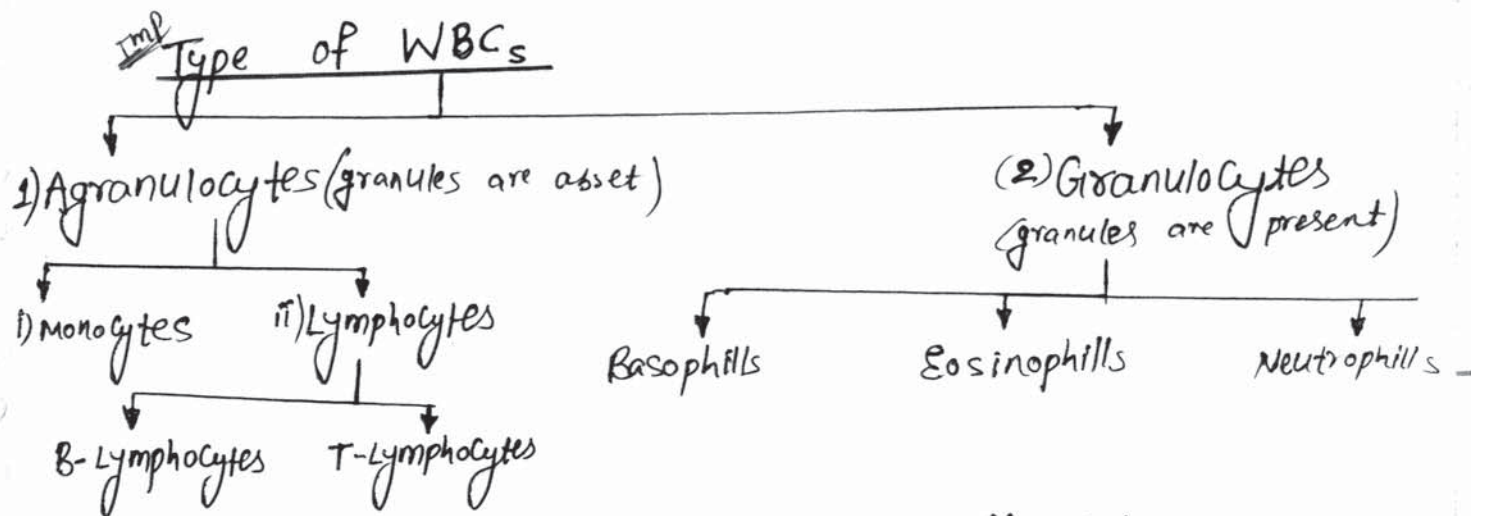
\* During hypoxia the number of RBCs increases in our blood, It is the reason the cheek of hilly area person or high altitude areas person's appear red.

\* Abnormal rapid increase of RBCs in our blood is called "Polythemia".

## WBCs (White Blood Cells)

Leucocytes (Colourless)  
 Hemocytes - a large group of blood cells can be created.

- \* Also called "Leucocytes"
- \* WBCs are colourless cells
- \* Formation of WBCs occurs in white bonemarrow.
- \* 4000 - 11000 WBCs per  $\text{mm}^3$  of blood.
- \* Life span of WBCs = 10 - 15 Days
- \* Nucleus present in WBCs
- \* WBC form immune system of our body.



- \* During AIDS T-Lymphocytes are affected.
  - \* Monocytes cells are the largest cell of our blood.
- ↳ WBC

\* Lymphocytes cells are the smallest cells among all WBCs.

NOTE: RBCs are the smallest cells in Blood.

\* During cancer WBCs first increases then decreases

\* Blood cancer is called Leukaemia.

\* The study of cancer is called oncology.

### Platelets (Thrombocytes)

\* Formation of platelets occurs in yellow bonemarrow.

\* 1.5 - 3.5 lakh platelets per  $\text{mm}^3$  of blood.

\* Life span = 7-11 days

\* Platelets help in blood clotting (Blood coagulation)

\* During dengue fever the number of platelets decreases.

\* Dengue fever is also called "Break - Bone fever"

NOTE: Ratio of Blood cells

RBCs : WBCs : Platelets

600 : 1 : 40

\* Nucleus absent in platelets

# Plasma

\* The liquid materia of blood is called plasma.

$$\text{Plasma} = \text{Blood} - [\text{RBCs} + \text{WBCs} + \text{Platelets}]$$

\* Plasma contain 90 - 92% water  
6 - 8% protein

1 - 2% salts, ions, Glucose etc.

\* Plasma without Blood clotting factors is called "serum"

\* serum is used to make vaccine

\* First vaccine made by "Edward Jenner" for small pox. (1798)

## NOTE:

Penicillin is the first antibiotic which made by Alexander Flemming from penicillium notatum fungus. (1928)

Generally antibiotics work against the bacterial infection.

Interferons proteins (Medicines) act against the viral infection

## Blood Clotting Factors

- Vitamin - K
- Mineral - Calcium (Ca)
- Fibrin
- Thromboplastin / Thrombokinase
- Prothrombin
- Fibrinogen

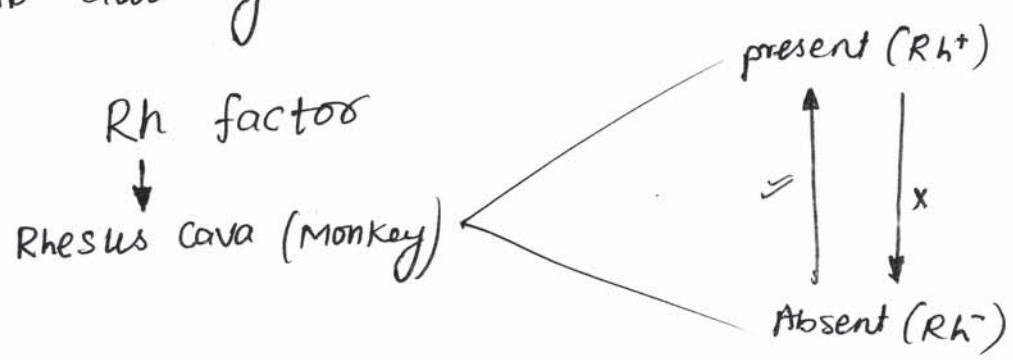
- \* Blood doesn't clott in our body due to the presence of antiblood clotting factor. Heparin.
- \* Formation of Heparin occurs in our liver.

\* Haemophilia Disease :-

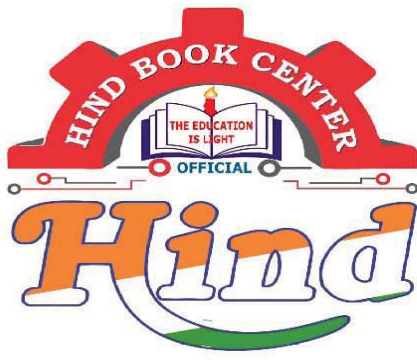
- It is a genetic disease
- Blood doesn't clott at injury
- It is an uncurable disease
- It is also called Royal disease

Blood Group :-

- \* Blood Group is discovered by Karl-Landsteiner.
- \* A, B, O (ABO) discovered by Karl-Landsteiner.
- \* AB blood group is discovered by Sterli & von-de-castello



- A<sup>±</sup>
  - B<sup>±</sup>
  - AB<sup>±</sup>
  - O<sup>±</sup>
- A<sup>+</sup> ← A<sup>+</sup>, A<sup>-</sup>, O<sup>+</sup>, O<sup>-</sup>  
 A<sup>-</sup> ← A<sup>-</sup>, O<sup>-</sup>  
 B<sup>+</sup> ← B<sup>+</sup>, B<sup>-</sup>, O<sup>+</sup>, O<sup>-</sup>  
 B<sup>-</sup> ← B<sup>-</sup>, O<sup>-</sup>  
 AB<sup>+</sup> ← A<sup>+</sup>, A<sup>-</sup>, B<sup>+</sup>, B<sup>-</sup>, AB<sup>+</sup>, AB<sup>-</sup>, O<sup>+</sup>, O<sup>-</sup>



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# Economics for State Services by Saurabh Pandey sir

## Topics :-

1. Nature of Economics
2. National Income
3. Demography / Population / Poverty
4. Five year Plans / NITI Aayog
5. Agriculture
6. Industry
7. Miscellaneous

## Nature of Economics

\* currency is a contract of value for purchase.  
or  
currency is an exchange value.

## 3 Type of Economy

1. Capitalist Economy
2. Socialist Economy
3. Mixed Economy

# Capitalist Economy

Basic Problems of economy are :

What to produce

How much to produce

For whom to produce.

Economics gives an answer to it. Therefore Economics deals with the best utilisation of the available resources.

\* The concept of capitalist economy is based on private means of production i.e. the ownership of production is private. This concept was given by Adam Smith in his book "Wealth of Nations".

In this book Adam Smith gives a word "Laissez faire" means less interference by the gov. The concept was given at a time during the course of industrial revolution. The concept of capitalist economy was adopted by USA after its independent. Since in capitalist economy the factor of production was private therefore its main focus is profit making.

## Characteristics of Capitalist Economy :-

1. Profit Motive
2. Free Market ⇒ Example: W.T.O (World Trade Org.)

### ③ Private Ownership

④ consumer has more options.

### Advantages of Capitalist Economy:

- i) Capitalist Economy is more efficient as it works according to concept of demand and supply and works on profit motive.
- ii) less government interference.
- iii) More scope for innovation

### Disadvantages of Capitalist Economy:

- i) Lots of variations in the income level of people.
- ii) Private means of production is based on profit motive therefore it can lead to environmental degradation, increase in pollutions or even in disbalance of natural resources.
- iii) Capitalist economy work on profit motive while socialist / state economy works on welfare motive. Hence, in capitalist economy rich become richer and poor become poorer.

### Socialist Economy / state Economy :-

The concept of socialist Economy is based on Marxian theory which was given by Karl Marx. According to it means of production are owned by the state and there is no concept of private property. It was adopted by USSR in 1917 after Bolshevik Revolution.

as of socialist economy is collective ownership  
of means of production.

USSR, china also adopted it and named it as  
USSR: Union of Soviet Socialist Republics.

"Communist Economy".

### Characteristics of socialist/state economy:

- i) socialist economy focuses on collective ownership of means of production and property
- ii) It has a concept of planning, goals and objective formulated by the gov. Ex: Planning Commission.
- iii) No free market hence no competition, less scope for innovation.

Countries that have adopted socialism: -

- i) Russia
- ii) china
- iii) Yugoslavia
- iv) Venezuela etc.

### Mixed Economy :-

Concept of Mixed economy was given by John Maynard Keynes in his book "The General Theory of Money Interest and Employment" that's why mixed also called Keynesian Economy.

According to Keynes both capitalist economy and socialist economy are not complete such as Capitalist economy in 1929. America faced the Great Depression. Socialist Economy faces corruption, inefficiency, lack of innovation, low economic growth etc.

Therefore John Maynard Keynes suggests that both Public and private sector coexist that is means of production is private and public both this ; and disadvantages of Capitalist and socialist both

India follows Mixed Economy. but india is also signatory to world Trade Organisation (WTO) which follows free market economy. In 1991, india adopted an approach which is more inclined toward capitalist economy called LPG. (Liberalisation, Privatisation & Globalisation).

### Sector of Economy

Activities that are directly related with Finance is called as Economic activity.

\* Back of a RS 2000 note, Mangalayan picture

RS 10	Sun Temple of Konark
RS 20	Ellora Caves
RS 50	Hampi with Chariot
RS 100	Rani Ka Vav
RS 200	Sanchi Stupa
RS 500	Red Fort with India flag
RS 2000	Mangalayan

\* Min. support price (MSP) is determinant of Agriculture costs  
 & prices commission

concept and

Activities are divided into 4 categories or 4 sectors

i) Primary sector

ii) Secondary sector

iii) Tertiary "

iv) Quaternary "

Natural Resources are direct use in primary sector

### Primary Sector:

It includes all those economic activities where there is direct use of natural resources

For Example:

Agriculture, Forestry, Mining, Fishing, Wool Rearing,

### Secondary sector:

It uses the product of primary sector as its raw material and processes it to finished goods

Example:

- \* Manufacturing units, cloth making, steel plant
- \* Electricity Generation is Primary but distribution is secondary.
- \* Cooking Gas extraction is primary but distribution is secondary
- \* Building construction is secondary.

## Tertiary Sector

It includes services such as Hotels, insurance, banking, ~~consult~~ consultancy, IT firm, Teaching etc.

Q Which of the following can't be categorised under Tertiary Sector?

a) Bee-keeping Primary

b) Taking Tuitions Tertiary

c) Working in call centre Tertiary

d) Helping your child with home work Non-Economic activity

## Quaternary Sector:~

This sector has its application in all other sectors. It is also called as Knowledge Economy. This sector has its application in all other sectors and the performance of other sectors depend on this sector. Therefore this sector helps in the economic growth.

Ex: R & D, Training, Innovation, Knowledge, Learning, New skills etc.

In India, :

Tertiary > Secondary > Primary

Indian economy is mixed economy. After independent the performance of primary sector i.e. Agriculture was best but after that growth of Agriculture sector became slow and Tertiary sector started rising.

NOTE :-

During 2020-21

Primary sector had best performance.



After independence more than 50% share of economy was from primary sector. Today the contribution of Agriculture in Indian economy is 17% while 49% population depend on Agriculture.

## National Income

Why National Income is important?

National Income gives an idea about how much production a country does in terms of money. The comparison of National Income of different years gives an idea about the growth or depreciation of economy.

For the 1st time National Income was calculated in India by Dadabhai Nauroji in his book 'Poverty and Un-British Rule in India' in 1901. In this book he calculated that the per capita income of Indians is only Rupees 20 per Annum.

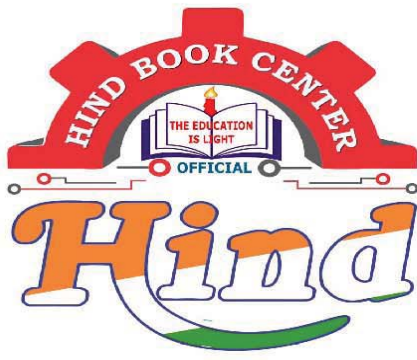
First scientific attempt to calculate National Income was done by Prof. VKRV Rao in 1931-32. He divided the Indian economy into 13 sectors.

After independence National Income Committee was formed under the chairmanship of PC Mahalanobis.

Other members of this Committee were:

VKRV Rao

DR Gadgil.



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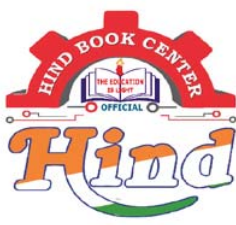
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# Current Affairs

1. Polity/Politics
2. International Affairs
3. Science and Technology Related Current Affairs
4. Environment Related Current Affairs
5. Sports Related current Affairs
6. Current Art culture related development
7. Economics [Budget, other economic development] & committees
8. Important conferences, commissions
9. Important places, days & dates.
10. Miscellaneous

# Polity | Politics :

## 1. Azadi Ka Amrit Mahotsav

India got independence on 15th Aug 1947.

on 15th Aug 2022 India celebrated its 75th Birthday but 76th Birth Anniversary.

on 15th Aug 2021 India celebrated its 75th Birth Anniversary. on 15th Aug 2021 the prime Minister gave the vision for India for next 25 years!

2047 → 100th Anniversary.

slogan: ~ sabka saath, sabka vikas, sabka Prayas, sabka vishwas.

## Announcements by the PM:

### (1) PM Gati Shakti Yojna: ~

→ Budget 100 Lakh crore

→ It is to develop Transport model.

→ 7 engines of growth:

(i) Roadways

(ii) Railways

(iii) Water way

(iv) Mass Transportation

(v) Ports

(vi) Logistics

(vi) Airports.

## (2) Distribution of Fortified Rice :-

The PM announced on Azadi Ka Amrit Mahotsav that Fortified Rice will be distributed.

What is Fortified Rice?

Fortification is addition of key vitamins and minerals such as iron, iodine, zinc, vitamin A & D, to staple food such as rice, wheat, oil, milk & salt to improve the nutritional value & provide the Health benefits with minimum Risk to health.

The Fortified Rice is mixed in a Ratio of 1:300  
Fortified : Regular  
1 : 100

## (3) 75 new Vande Bharat Express Trains

The PM has announced that 75<sup>new</sup> Vande Bharat express Train will be started. These trains were earlier known as Train 18. It is an intercity semi-high speed electric based mobility Train. It is ~~now~~ manufactured by Integrated Railcoach factory Hyderabad. The Engineering firm which is manufacturing it is called "Medha". The train is manufactured in lesser cost than the imported Trains & also these trains are capable of running at a maximum speed of 160 km/hr however due to incapacity of the tracks it is able to run at speed of 130 km/hr only. Train 18 is India's 2<sup>nd</sup> fastest train after Gatiman express (160 km/hr)

#### (4) Sainik Schools for Girls :-

Sainik schools are specialised boarding schools that are based on the defence curriculum. These schools were established in 1961 on the recommendations of K. Krishna Menon, the then Defence Minister of India. Currently there are 33 sainik schools in India that run by sainik school society and will be run by Private and NGO organisation.

Union finance Minister also announced during 2021 budget that 100 new sainik schools will start.

#### (5) Indus Central University, Ladakh

Indus central university will be started at Ladakh to make it a centre of higher education.

#### (6) National Hydrogen Energy Mission (NHEM) :

##### 2 Types of Hydrogen for fuel

Green Hydrogen

Grey Hydrogen

The PM also announced NHEM to make India the global production hub for clean hydrogen fuel production and exports.

Green hydrogen/clean hydrogen were obtained by electrolysis of water that gives hydrogen & oxygen

both. These Hydrogen is used in vehicles in the place of petrol/Diesel. In the presence of air Hydrogen reacts with oxygen to produce water as waste product. Therefore it is a completely non-polluting and a complete sustainable model. Other form of Hydrogen is Grey Hydrogen which is obtained from fossil fuels. Grey Hydrogen is found along with carbon and it is highly polluting. Only drawback with green hydrogen is that the production of green hydrogen gas is very high.

Blue hydrogen is Grey Hydrogen that behaves like Green Hydrogen after absorption of  $CO_2$ .  
Important Point from 15th Aug 2022:

### (1) Har Ghar Tiranga :-

Har Ghar Tiranga Companion was stated on the eve of Azadi Ka Amrit Mahotsava to make the people feel connected with our national flag and to develop the feeling of patriotism. For the program Har Ghar Tiranga there was need to change the flag code of India. Flag code of India was first given in 2002. It was ammended in 2022.

1st flag code : 26th Jan 2002

2nd flag code : 15th Aug 2022

According to New Flag Code :-

- (i) The National flag also called as Tiranga can be flown in night also but earlier it had to be



taken down every evening and hoisted back every morning.

- (ii) According to new flag code flag can be made up of Machine also or factory made but earlier National flag could be Hand woven only.
- (iii) According to new flag code national flag can be made up of polyester also while earlier it could be made up of cotton or khadi.

NOTE:

According to 19(1), hosting of national flag is a fundamental Right.  
our current form of National flag was designed by Pingali, Venkaya.  
Birth Anniversary 2<sup>nd</sup> Aug, (2022 - 146<sup>th</sup>)

### (3) Punch Pran:

The PM Announce Punch Pran that will make india developed country. In 25 years when india will be celebrating ~~to~~ ~~pran~~ to make india developed country by the time it will celebrate 100<sup>th</sup> independent in 25 years.

The Punch Pran are:—

- (i) To advance with greater convection and determination of a developed india.
- (ii) To get read of any form of slavery and erase all traces of servitude or colonial mindset.

- iii) Take pride in country legacy & history.
- iv) Make unity our strength.
- v) Duties of citizen to be fulfilled.

## Presidential Election 2022 :-

\* India is a republic country hence head of state is elected.

\* India is a democratic republic country hence, head of the state is elected by the people.

\* Head of the state India is : The President

\* While Prime minister is the Head of Government.

\* According to Indian constitution, there will always be a president of India. Hence before completion of the term of current president, the election for the coming president should be completed.

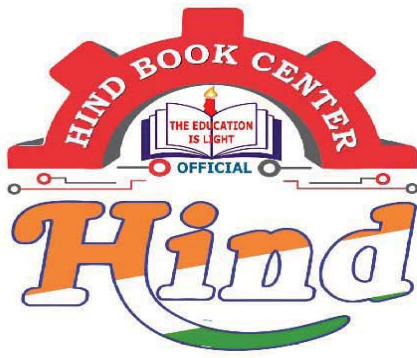
### The president of India

#### Who can vote for president :-

- (1) Elected member of Parliament (MP)
- (2) Elected members of state Legislative Assembly (MLA)
- (3) Elected members of Union Territory (UT) (Delhi, Puducherry)

#### Who cannot vote for president ?

- (1) Nominated members of parliament
- (2) Nominated members of state/UT Legislative Assembly
- (3) Member of Legislative Council.



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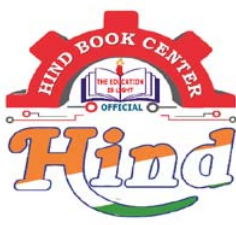
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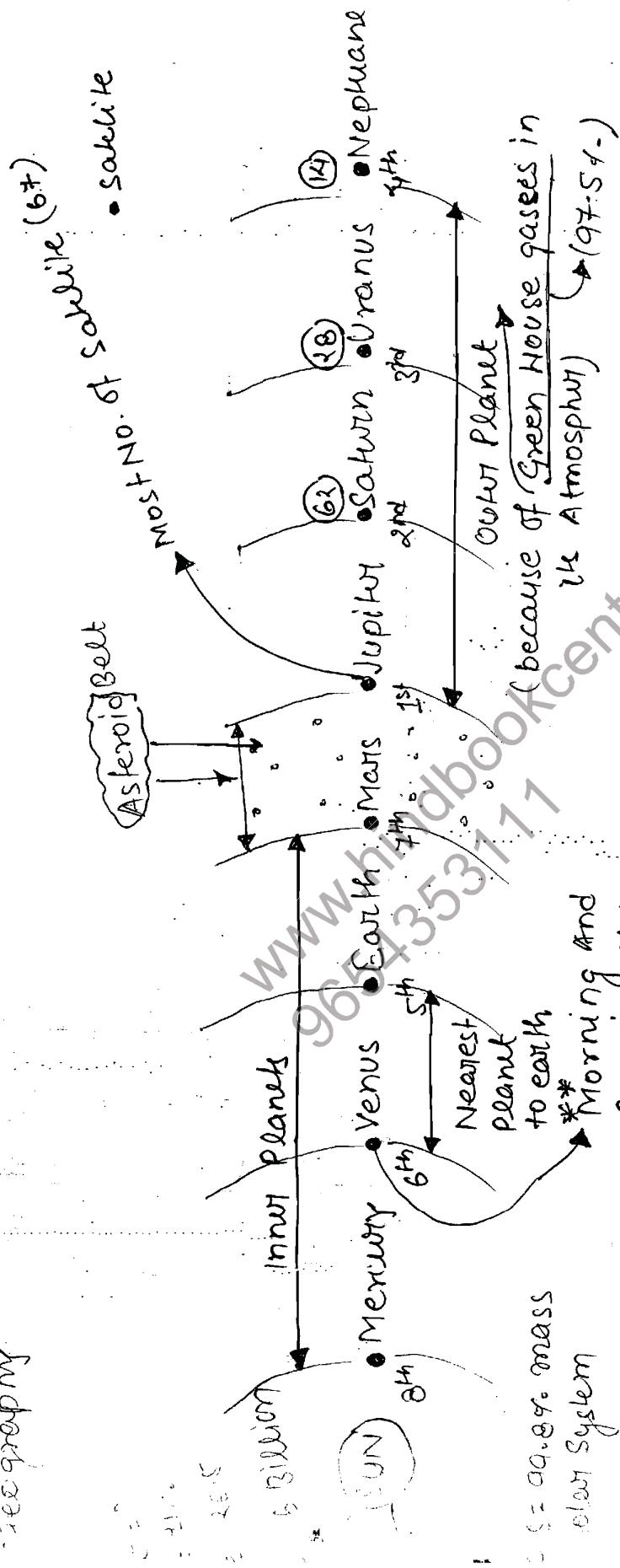
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See geography



\*\*\* Densest Planet of our solar system (Earth) (5.5 gram/cm)

- \*\*\* Mercury and Venus don't have satellite
- \*\*\* Ganymede (largest satellite) → Jupiter
- \*\*\* Deimos (smallest satellite) → Mars

\*\*\* Morning and Evening star Brightest / Hottest Planet of our solar system.

... outer planet have ring  
... ring of saturn is visible  
... earth

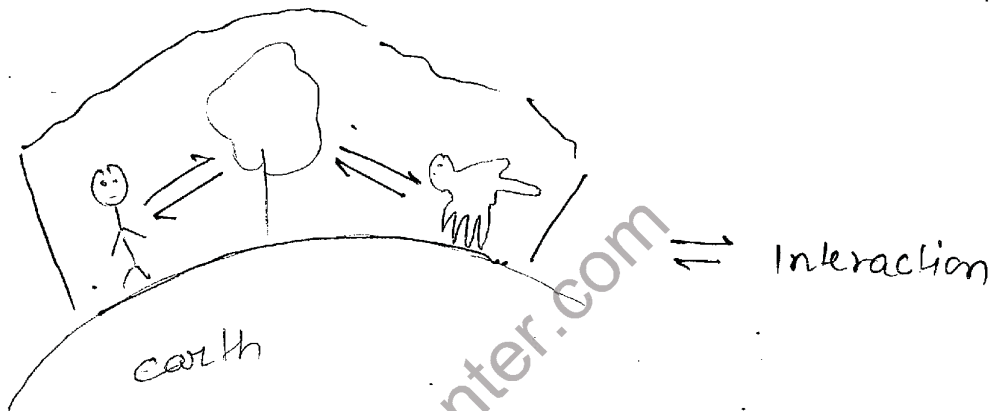
- All planet rotate from ~~W to E~~ <sup>W → E</sup> except Venus, Uranus.  
    ← (E-W)      → Pole to Pole (N-S)
- All planet revolve from west to east in Anticlockwise direction.

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# (Environment)

## \* Basics of Environments →



- Ecology :- word was coined by "Ernst Haeckel"  
ecology is a science under which we study interaction of flora (Plants) and Fauna (organism) of a particular place on the one hand and on other hand their combined interaction with surrounding larger environment.

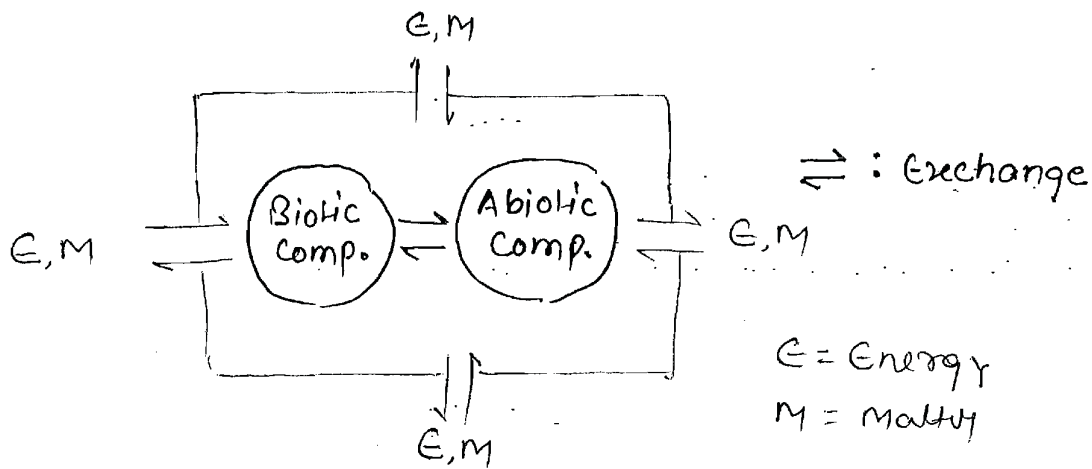
- Ecosystem :- coined and conceptualise by "A.G. Tansley (1935)"  
however it was elaborated by E.P. Odum

• Open System      E.M → (\*\* exist in Nature)

• Close System      E.M (Lab.)

• Isolated System





Biotic - Living beings

Abiotic - Non-living beings

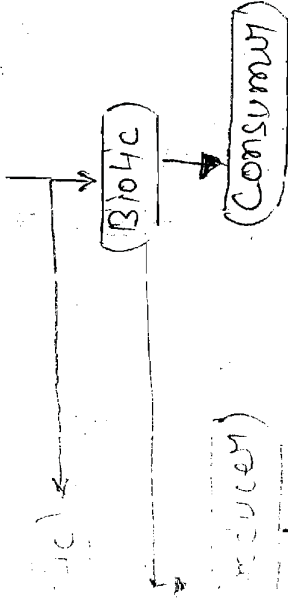
Ecosystem is mainly made-up of biotic and Abiotic component, where these two are interconnected each other in such a way that they behave as one entity and after behaving as one entity interact with surrounding environment.

### • Types

- Terrestrial Ecosystem (Continental Area)
- Marine Ecosystem (Ocean Area)

### • Structure of Ecosystem →

# Structure of Ecosystem



Producers  
→ autotrophs  
→ their food  
presence of  
light

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