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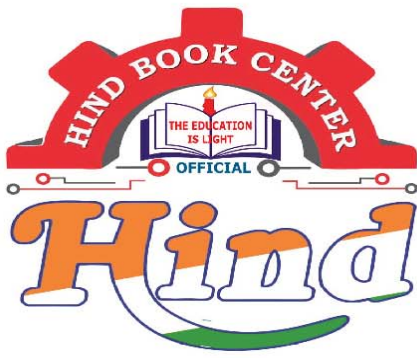
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- STANDERD QUALITY
- ENERGY AND ENVIRONMENT
- BASIC OF PROJECT MANAGEMENT
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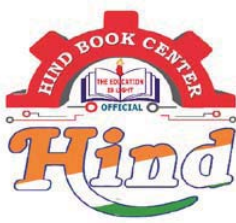
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## Current Affairs

No. of hours → 25-30

→ Materials

→ Class Notes → 01.

→ Test Series Questions - 02

→ Question Bank by S. Pandey - 03.

No. of Questions

→ 15-20

### Topics to be covered under Current Affairs.

- 1] Economics Related current Affairs.
- 2] Environment Related current Affairs.
- 3] Science and Technology Developments.
- 4] Polity/ Political Developments.
- 5] Awards & Honors.
- 6] India and International Affairs.
- 7] International Affairs.
- 8] Sports Related current Developments.
- 9] Art and culture heritage etc.
- 10] Miscellaneous Section.

→ Govt. programmes & policies.

→ Defence Exercises & Defence related issues.





## Economics Related Current Developments -

### 1) Concept of Monetary & Fiscal Policy -

#### Monetary Policy:-

- Policies related to the Money Supply in the Indian Market.
- It is Managed by RBI (Reserve Bank of India)  
RBI is the central Bank of India.  
RBI is also called as Banker's Bank.
- Main Purpose of RBI is to control state of Inflation in Indian Economy.

These are tools used by RBI to control inflation.

These tools are called as Monetary Policy.

#### Important concept:-

- 1] When there is more money in the market there is inflationary tendency in the Market.
- 2] When there is less money in the market there is Deflationary tendency in the Market.
- 3] Whenever there is Inflationary tendency in the Market RBI tries to bring down the Inflation.  
RBI applies 'contractionary Policies'.
- 4] When Deflationary tendency in the market → RBI brings the Inflation up.

↓  
RBI applies  
'Expansionary Policies'

- In Contractionary Policy money from the market is taken out.
- In Expansionary Policy, money is infused into the Market.

## Monetary Policy tools:-

- 1] Repo Rate:- This is the rate of interest at which RBI gives loan to commercial bank.
- 2] Reverse Repo rate:- This is the rate of interest at which commercial banks give loan to RBI.
- 3] Open Market Operations:- (OMO):- Purchase and sales of T-Bills (Treasury Bills) and govt. Securities by RBI is called as open market operations.

### Note:-

#### T-Bills:-

- Treasury Bills are the instruments used by Govt. of India to guarantee repayment of funds at a later date.
- T-Bills are used to meet the short term requirements of the Government.
- Treasury Bills are used to meet the short term fiscal deficit of the country.
- Fiscal Deficit:- When there is more expenditure than the income, it is called as fiscal Deficit. The Treasury Bills are issued for a Max<sup>m</sup> Tenure of 364 days.

#### → Govt. Securities:- (G-Sec).

Whenever there is fiscal Deficit than the Govt. Issues Govt. Securities also called as G-Sec (or) Govt. Securities.

G-Sec serves as a means for the Govt. to raise funds from the public to meet its expenditure needs for this Govt. issues G-Sec (or) Govt. Securities. T-Bills are a type of short term Govt. Securities, while Dated Securities are long-term borrowing by the Govt.



#### 4) CRR (Cash Reserve Ratio) :-

Every Commercial bank must have to maintain sum liquid cash amount this liquid cash amount is the percentage of total time and demand liability.

$\downarrow$  It is like F.D       $\downarrow$  It is saving account money.

∴ CRR ↑ → Contractionary policy.

∴ CRR ↓ → Inflationary policy.

CRR बढ़ाया होगा तो Bank के पास Loan देने का amount कम हो जाएगा।

जिससे market में पैसा कम हो जाएगा and vice-versa

$\left\{ \begin{array}{l} \text{Saving a/c deposit} \rightarrow \text{Demand liability} \\ \text{fixed Deposit Account} \rightarrow \text{Time liability} \end{array} \right.$

#### Q1 Contractionary or Inflationary?

Repo increase. → Contractionary      RBI increase कर देगा rate of interest जिसकी वजह से Bank भी Demand करेगा ज्यादा R.O.I लोग

Q2 Reserve Repo Rate increase. → Contractionary.

Q3 T- Bills purchase by RBI. → Contractionary.

Q4 G-Sec sell by RBI. → Contractionary. public buy

G-Sec तो public के पास पैसा नहीं बचा तो उस public पैसा expend नहीं कर पाएगी so contractionary policy.

पैसे तो लोग loan उस time नहीं लेंगे और Market में पैसा कम हो जाएगा।

#### Fiscal Policy:-

fiscal policy is the policy used by the govt. of India through finance ministry and these policies are related to taxation. fiscal policy are also called as govt. Revenue collection policy.

#### Objective of fiscal Policy:-

- 1] To control fiscal Deficit.
- 2] To boost economic growth.
- 3] To create employment opportunities.



## Tools of fiscal policy include

1] Taxation

2] Government spending.

1] Taxation:- Whenever govt. increases the Taxation then there may be more revenue collection by the govt. but people will have less money to spend, and therefore there will be reduced economic growth in the country.

\* Taxation increase  $\rightarrow$  Economic growth Decrease  
but when there is less taxation by the govt. than there will be more money in the hands of people to spend and this will lead to more economic growth but at the same time govt. will have less money to spend leading to increase in fiscal deficit

\* Taxation decrease  $\rightarrow$  fiscal deficit increase.

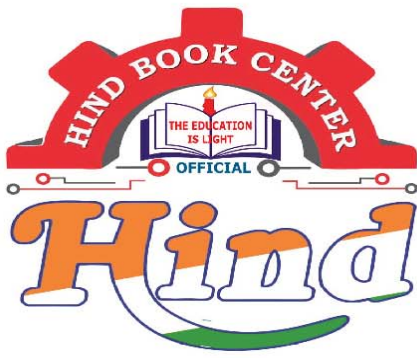
2] Govt. Spending:-

Govt. spending are of two types:-

1] Burden:- It is related to the salary payment, subsidies expenditure etc.  $\rightarrow$  In the language of Economic we say this Revenue Expenditure.

Revenue expenditure is that expenditure of govt. that has to be carried out on a regular basis by the govt. it is also not forming any income in the long run.

2] Capital Expenditure:- This Another type of expenditure by the govt. in which formation of infrastructure is included Infrastructure formation means building of dam, roadways, expressways and ports, Airports etc. Capital expenditure is considered as good for the country because it is related to



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# Engineering and Safety

## a) Drawing

- 1] Introduction.
- 2] Scales.
- 3] Conic - sections.
- 4] Engg. curves.
- 5] Theory of projections.
- 6] Projection of points
- 7] Projection of lines
- 8] Projection of planes
- 9] Projection of solids.
- 10] Section of solids
- 11] Development of surface

## b) General Principles of Design.

### 1] Importance of safety.

#### 1] Safety an Introduction

#### 2] work study and Ergonomics.

#### 3] fire safety.

#### 4] safety in Industries.



1954

1. The first part of the report deals with the general situation of the country and the progress of the work during the year. It is followed by a detailed account of the work done in each of the various departments, and a summary of the results achieved. The report then goes on to discuss the financial position of the organization, and the measures taken to improve it. Finally, it concludes with a list of recommendations for the future.

2. The second part of the report is a detailed account of the work done in each of the various departments. It begins with a description of the work done in the Department of Agriculture, and then goes on to describe the work done in the Department of Education, the Department of Health, and the Department of Social Services. Each of these sections is followed by a summary of the results achieved, and a list of recommendations for the future.

3. The third part of the report is a summary of the results achieved during the year. It begins with a description of the work done in each of the various departments, and then goes on to describe the results achieved in each of these departments. It then concludes with a list of recommendations for the future.

4. The fourth part of the report is a list of recommendations for the future. It begins with a description of the work done in each of the various departments, and then goes on to describe the results achieved in each of these departments. It then concludes with a list of recommendations for the future.

## Chapter-1

### Introduction

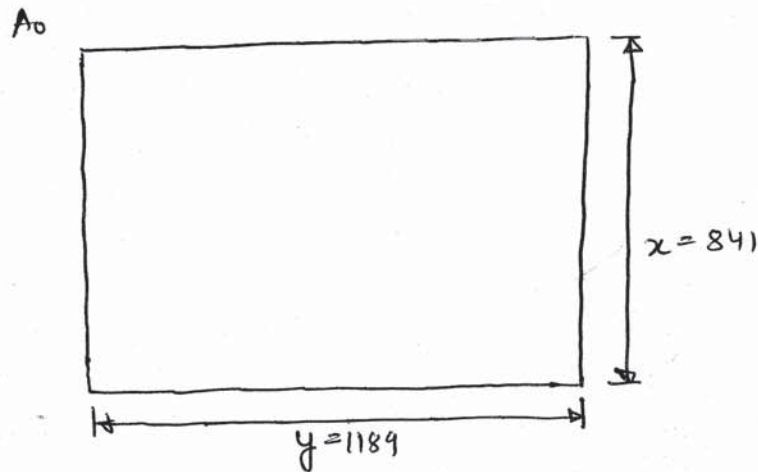
#### ① Drawing Sheet [IS 10711:2001]

• Sheet Size :  $A_0 > A_1 > A_2 > A_3 > A_4$

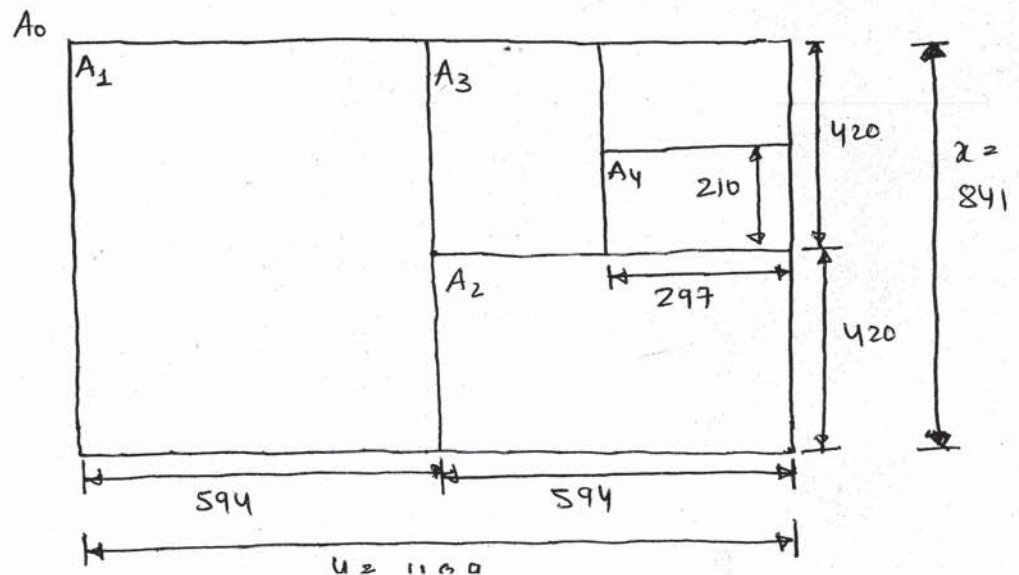
•  $A_0$  Sheet Size

Condition

$$\left\{ \begin{array}{l} x:y = 1:\sqrt{2} \\ xy = 1\text{m}^2 \end{array} \right\} \text{ on solving } \begin{array}{l} x = 0.841\text{m} = 841\text{mm} \\ y = 1.189\text{m} = 1189\text{mm} \end{array}$$



The successive Sheet size is Drawn from the previous Sheet size by taking half of the longest length of the previous sheet and Maintain  $1:\sqrt{2}$ .



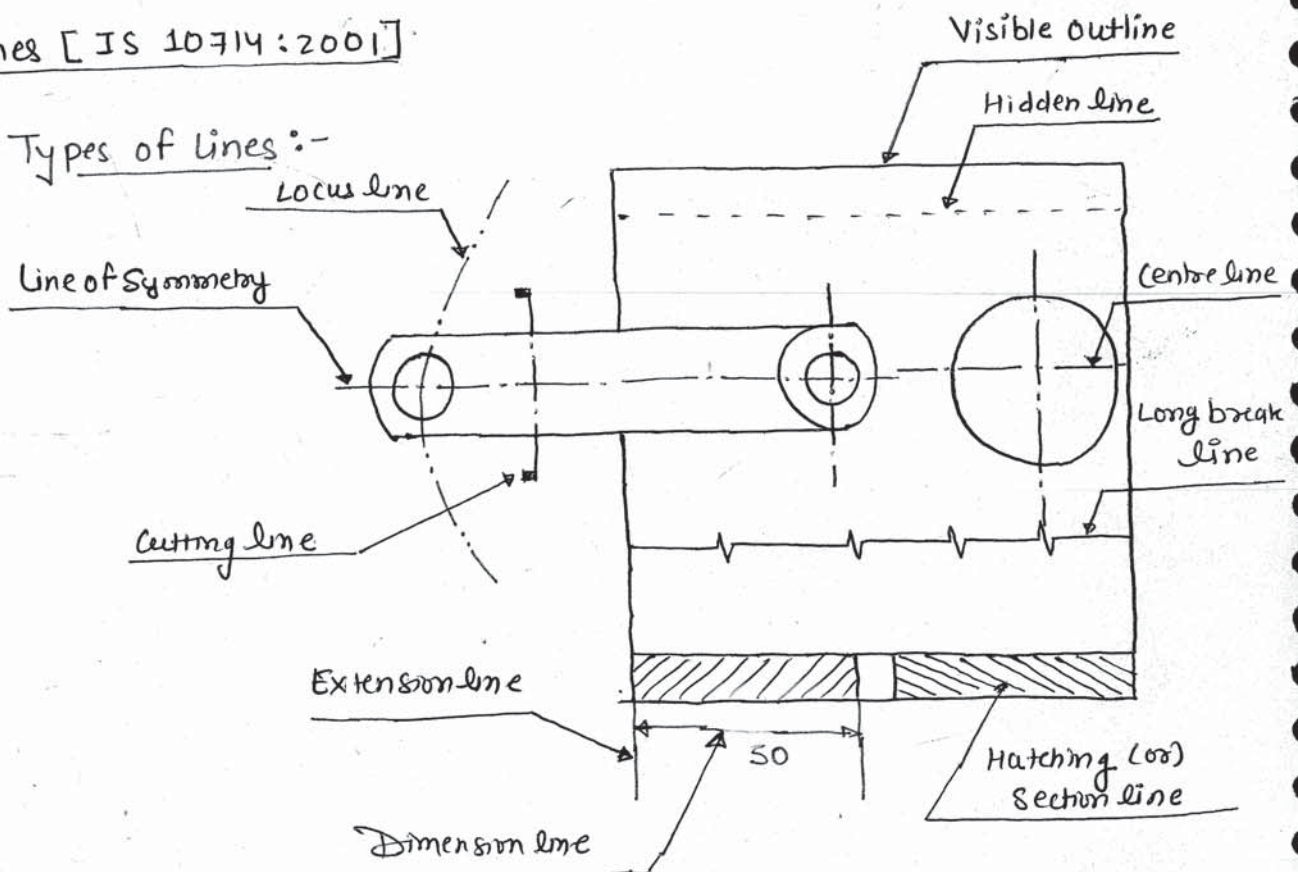
Sheet Size	x	y	x:y	xy (m <sup>2</sup> ) $\left\{ \frac{1}{2^n} \text{ in } 2^{0,1,2,\dots} \right\}$
A <sub>0</sub>	841	1189	1:√2	1
A <sub>1</sub>	594	841	1:√2	$\frac{1}{2}$
A <sub>2</sub>	420	594	1:√2	$\frac{1}{4}$ ] classwork
A <sub>3</sub>	297	420	1:√2	$\frac{1}{8}$
A <sub>4</sub>	210	297	1:√2	$\frac{1}{16}$


Note:-

The printers Scanner photocopy etc. are designed in the ratio 1:√2 hence to maintain the Uniformity the same ratio taken in Drawing sheet.

## 2] Lines [IS 10714:2001]

### i] Types of Lines:-



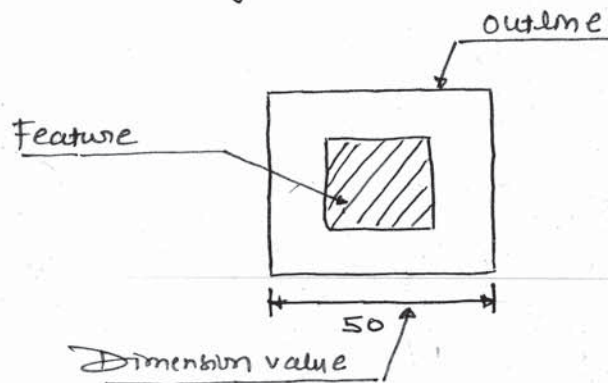
- Continuous Narrow line :- Extension line, Dimension line, Section (or) hatching line, leader line (  )
- Continuous wide line :- Visible outline.
- Dotted Narrow line :- Hidden line.
- Long dash dotted Narrow line :- Line of Symmetry, Centre line, Cutting Plane.
- Long dash Double Dotted Narrow line (or) Phantom line :- Locus line
- Continuous line with Zig-zag :- Long break line.

Note:-

### 1] Leader line:-

It is a continuous Narrow line Made at an Angle greater and Equal to  $30^\circ$  which is used to denote either feature (or) outline (or) Dimension value of an object.

Example:-

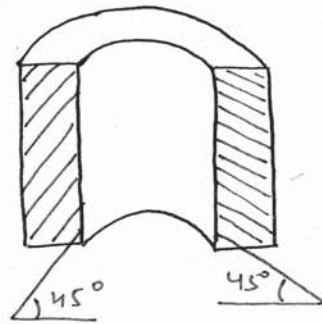


### 2] Hatching line (or) section line:-

To Reveal the internal structure of a solid section plane is used & The Revealed part is drawn using Hatching line at  $45^\circ$  with Horizontal plane. Adjacent pieces is shown by Hatching line in opposite Direction.



Example:-



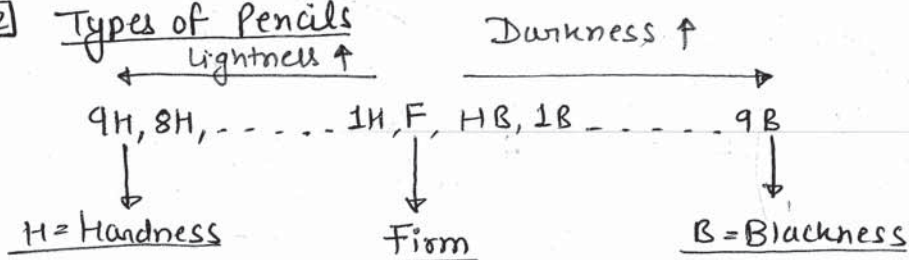
### 3] Priority of lines under overlapping

- (i) visible outline.
- (ii) Hidden line.
- (iii) Cutting line.
- (iv) line of Symmetry (or) centre line.
- (v) Projection line.

### 3] Lettering [IS 9609 : 2001]

1] Lettering is the Method to write Dimension values, Notes, Letters etc using HB pencils.

#### 2] Types of Pencils



3] For Engg. Drawing 3-types of pencils are used.

1H, 2H, HB.

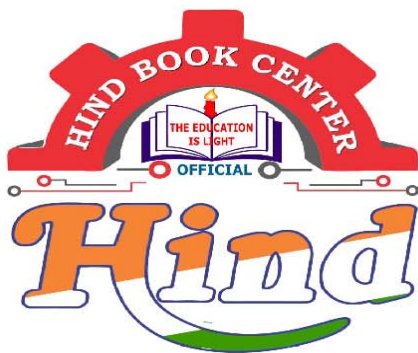
#### 4] Preparation of Pencil

##### i] Conical



used for

→ Letters Dimension values, Notes etc.



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# Environment & Energy

Vinay Tripathi Sir

9899193917

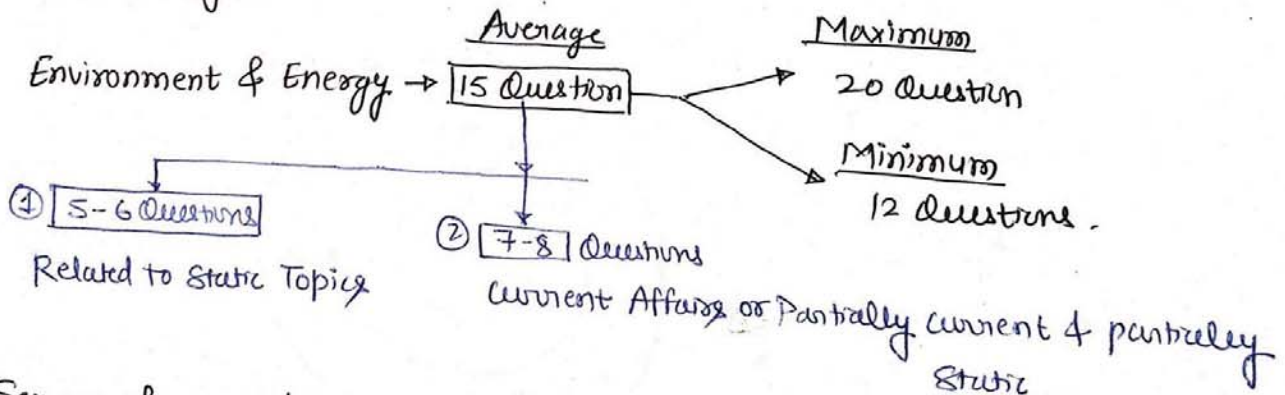
## Syllabus

- ① Basics of Environment.
- ② Biodiversity.
- ③ Environmental Pollution & Environmental Degradation.
- ④ climate change & Global Warming.
- ⑤ International Environmental Conferences
- ⑥ Conventions, protocols and treaties.
- ⑦ Ozone & ozone hole
- ⑧ Environmental Impact Assessment (E-I-A)
- ⑨ Energy.

Static in Nature

Dynamic in nature

## Marks Analysis



## Sources of Study / Study Material

- ① Class Note → Highlighted topics most important topics.
- ② Printed Booklet
- ③ Workbook → 70% → Difficult → JAS  
30% → IES



## Chapter-1

### Basics of Environment

① What do you mean by Nature?

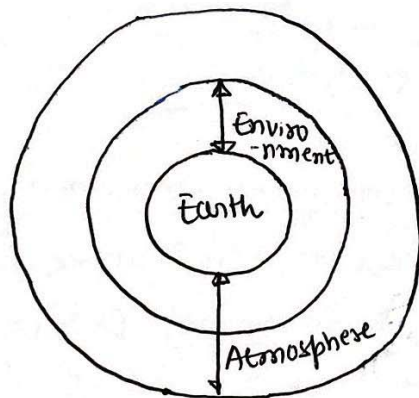
Answer:- Nature is that part of earth which is least affected ~~or~~ not affected by Human beings. From such area we use to get Natural products.

② What do you mean by Environment?

Answer:- Surrounding of Earth where life is found is known as Environment

③ What is Atmosphere?

Answer:- Surrounding of Earth which is made from gases, water vapour & Dust Particles.



Q1 What is Environment?

The term

Answer:- The term Environment is derived from french word <sup>16</sup>Environ/Environner<sup>22</sup>

which means to surround i.e Environment is surrounding of Earth where life exist because of existence of favourable biotic and Abiotic Elements

### Components of Environment

① Biotic → Living Beings → Flora → Plants.  
→ Fauna → Organisms.

② Abiotic → Non-living Beings  
ex:- Soil, water, Air, Sunlight, temperature etc.

### Types of Environment

1] Natural Environment

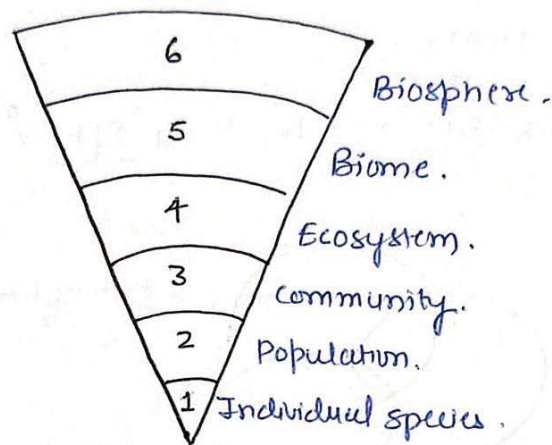
2] Artificial Environment.

1] Natural Environment:- Natural Environment is that Environment where flora & fauna are allow to grow in their Natural forms without any disturbance (Anthropogenic disturbance). Ex:- forest.

2] Artificial Environment:- Artificial Environment is that Environment flora & fauna are allowed to grow in deigned forms to fulfill need of human beings. Ex:- Zoo, garden/parks.



Hierarchy in Environment :- (Life can be studied at following Hierarchical level in Environment).



1] Individual Species :- If two living beings satisfy following criteria then can be called Individual from same species :-

(i) They look alike.

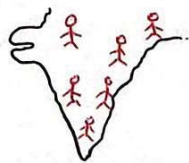
(ii) They can establish mating Relationship and as a result of which they reproduce fertile offsprings.

ex:- Horse + Mare  $\xrightarrow{\text{Mating}}$  Horse/Mare (Individuals from same species).  
(which can not reproduce children)

ex:- Horse + Pony  $\xrightarrow{\text{Mating}}$  Mule (Sterile) (Individuals are not from same species).  
(अश्व-वधू)

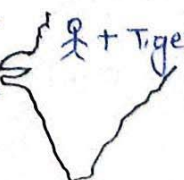
2] Population :-

Sum of Individuals who are from same species and living in the same Geographical area. example :- People's who lived in India. (People's)



(Homo sapiens)

3] Community :- Sum of Individuals who are from different species and living in the same Geographical area. example :-  
→ In India Homo sapiens, Tiger, Elephant etc. are lived in are called community.

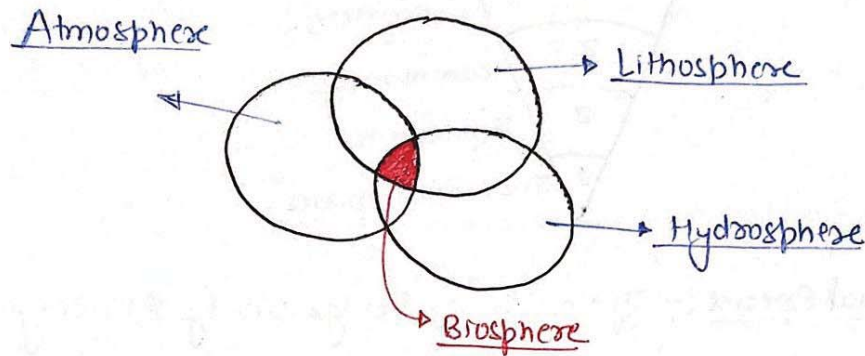


4] Ecosystem:- Sum of Biotic and Abiotic components known as Ecosystem.

5] Biome:- Sum of Homogenous Ecosystem is known as Biome.

6] Biosphere:- Zone of living.

The term 'Bio' means life and the term 'Sphere' means Zone.

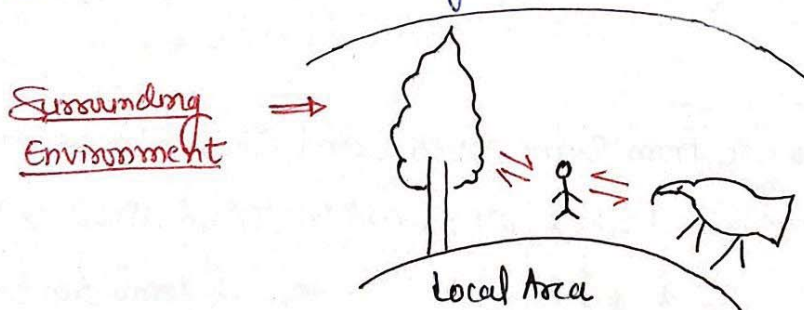


## Ecology

→ Concept of Ecology was given by Ernst Haeckel in 1869 A.D.

According to him "Ecology is a science under which interaction is studied at following levels":-

- 1] Among Flora & fauna of a local area.
- 2] Combined interaction of flora & fauna with surrounding environment.



### Index

$\rightleftharpoons$  :- Interaction for exchange of energy & matter.

→ The term Ecology was derived from Greek word "Oikos & Logos".

where "Oikos" means Habitat / Abode Place and "Logos" means

"to study".

Living / Resident



## → Approach to study Ecology:-

1] Autecology.

2] Synecology.

1] Autecology :- When interaction is studied among individual who are from same species then it is known as Autecology / population ecology.

2] Synecology :- When interaction is studied among individual who are from different species then it is known as synecology / community ecology.

## Principles on which Ecology functions:-

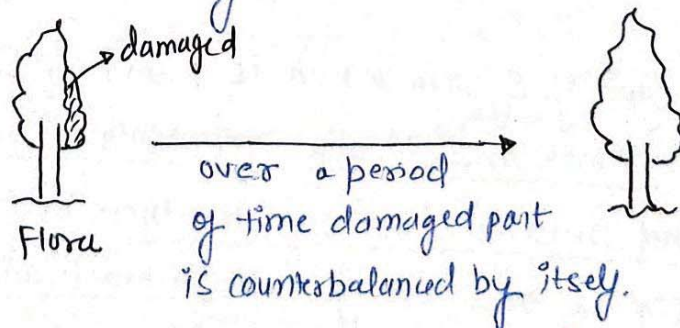
→ There are following three principle on which functioning process of Ecology is

Dependents:-

- ① Homeostasis
- ② Limiting factor.
- ③ Principle of conservation of Energy.

### Details:-

1] Homeostasis :- It means self-regulation (or) Inbuilt counter mechanism. It refers compensation of losses / damage which is observed in flora/fauna in their Nature functioning process.

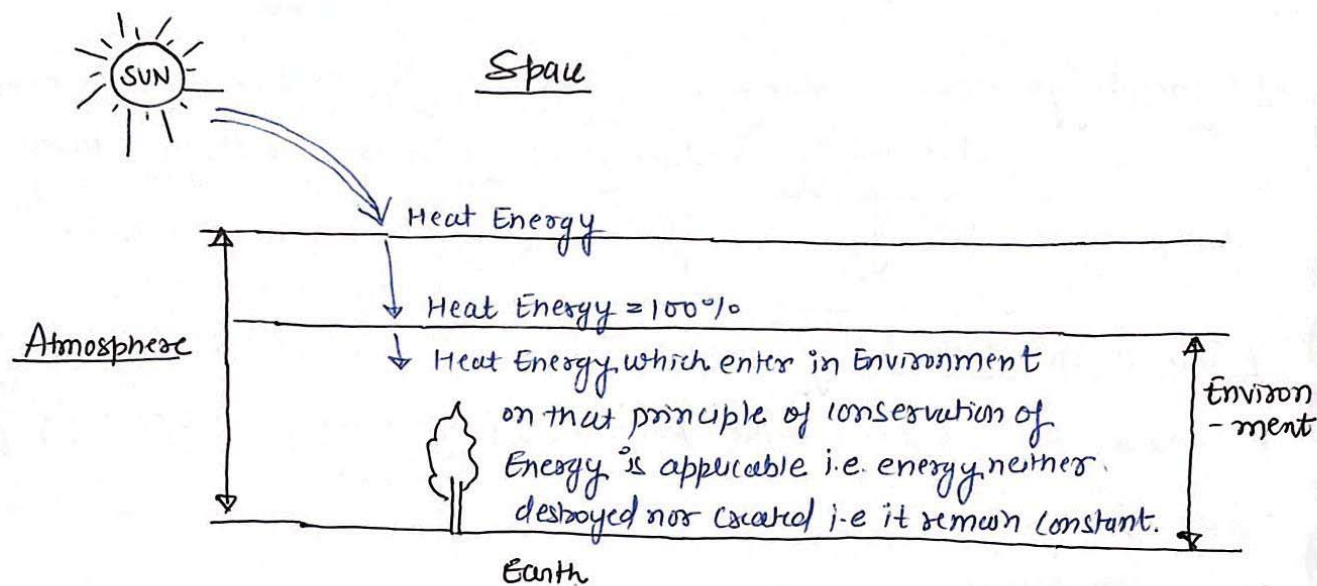


NOTE:- In the field of computer science / Artificial Intelligence, Homeostasis is known as Cybernetics.

2] Limiting factor:- All Essential Elements which are needed to support life should be in a limit.

Example:- water is essential to support life but too much water leads flood and too less water leads Drought, both are harmful.

3] Principle of conservation of Energy | Law of conservation of Energy.



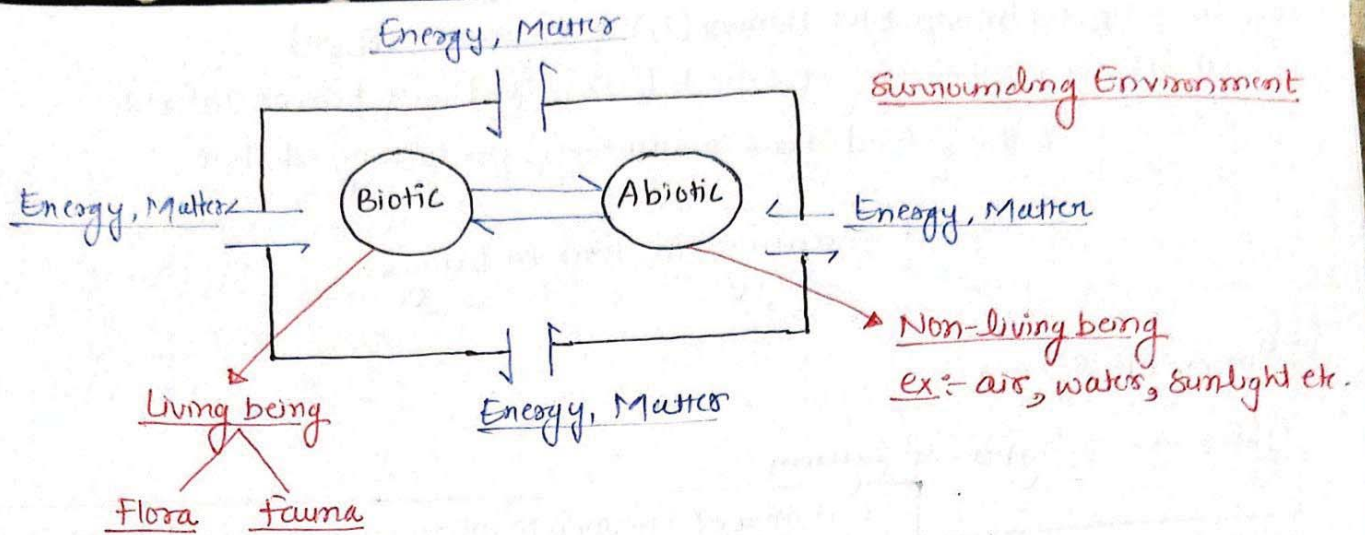
## Ecosystem

Concept was given by A.G. Tansley in 1935. Though it was elaborated in detail by E.P. Odum that's why E.P. Odum is known as father of Ecosystem, Ecology.

## Definition:-

Ecosystem is a type of system which is found in Environment and it is made from Biotic and Abiotic components where both are interconnected and interlinked with each other in such a way that they function as one entity and interact with surrounding Environment for exchange of Energy & Matter.

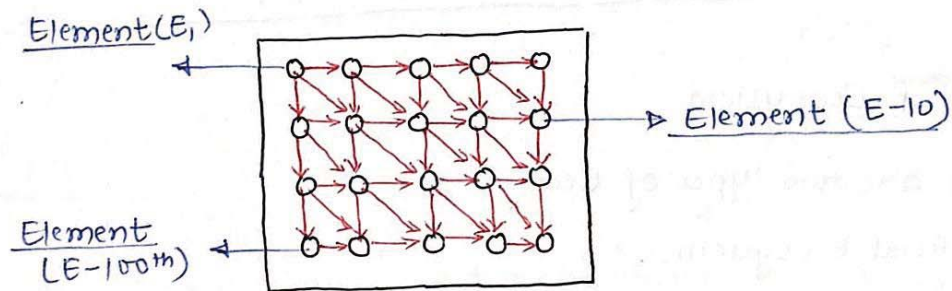




NOTE:-  $\text{ECO} + \text{System} = \text{Ecosystem}$ .

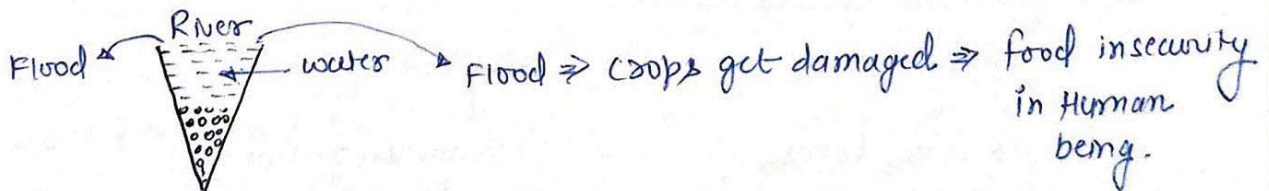
$\downarrow$   $\downarrow$   
Environment

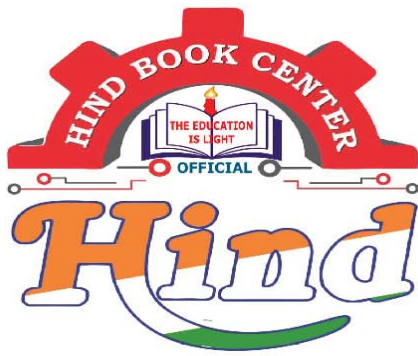
Concept of system was borrowed from biology & system is entity / device which is made from more than one elements whose all elements are interconnected with each other in such a way that they function as one entity.



Example 1:- Relationship b/w Human ( $E_1$ ) & tiger ( $E_{10}$ )

Explanation:- If tiger get extinct then there is sudden outgrowth of Herbivores  $\rightarrow$  Then there would be overgrazing  $\rightarrow$  Soil erosion  $\rightarrow$  Siltation in Rivers  $\rightarrow$  Flood during Rainy season.





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# Information & Communication Technology

By Saurabh Pandey

## ICT

→ Applications of ICT Tools in the field of e-Governance, e-Education and Networking.

Requirements :-

- 1] class Notes.
- 2] Test Series.
- 3] Theory Book.

According to the Syllabus. Major Topics are :-

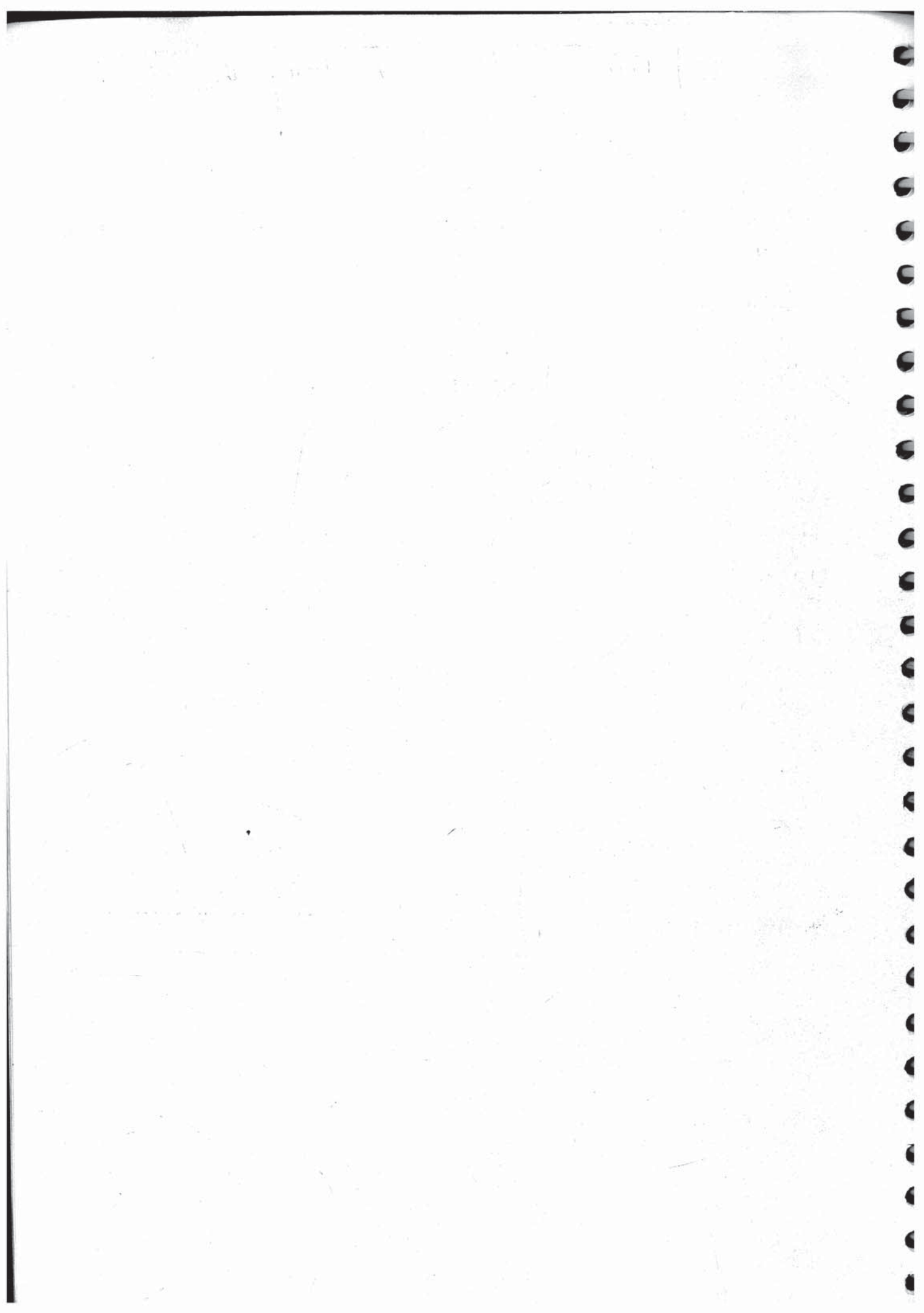
1] <u>ICT Tools &amp; Networking</u>	2] <u>e-Governance</u>	3] <u>e-Education</u>	4] <u>Current Technological Development</u>
<ul style="list-style-type: none"> <li>→ Hardware Tools → 01</li> <li>→ Software Tools → 01</li> <li>→ Network Models → 01</li> <li>→ Internet → 02</li> <li>→ Network Security → 01</li> </ul>	<ul style="list-style-type: none"> <li>→ objective, Advantage &amp; Disadv. → 01</li> <li>→ Digital India Programme → 01</li> <li>→ What is e Gov → 01</li> <li>→ Govt. programme</li> </ul>	<ul style="list-style-type: none"> <li>→ Types of e-Education.</li> <li>→ Pedagogy.</li> <li>→ Gov. Programme Such as NMEICT</li> </ul>	

Total Time : 25-30 hrs

## Major Syllabus Part

### Questions

- 1] ICT Tools + Networking → 3/4/5
- 2] e-Governance → 2/3
- 3] e-Education → 2/3.
- 4] Current Development → 01



## e-Governance

### Applications of ICT Tools in the field of e-Governance

#### Sub Parts :-

- 1] Historical Background.
- 2] What is e-Governance.
- 3] Objective, Advantages & Disadvantages.
- 4] Digital India programme.
- 5] Other e-Gov. related programme.

### Historical Background

- Good Governance Day : 25<sup>th</sup> Dec.
- In year 2000, IT Act was passed that started the beginning of e-Governance in India.
- A ministry MOICT was formed under IT Act.
- MOICT : Ministry of Information & Communication Technology
- 3 departments were placed under this Ministry :-
  - 1] Department of Post.
  - 2] Department of IT.
  - 3] Department of Telecommunication.

(Atul Bihari Vajpayee के Time पर IT Act आया था IN 1999 में meeting हुई थी उसके बाद conclusion निकला की good Governance के लिए e-Governance लाना पड़ेगा तो year 2000 में IT Act आया था Atul Bihari Vajpayee के जन्मदिन पर e-Governance Day मनाया जाता है।)



## IT Act, 2000

- IT Act 2000 is one of the most basic law in the field of Information Technology but it only says that electronic documents will also have the same validity in the court of law as the Physical Documents. But it did not talk about cyber security, Cyber scam or any other thing such as Social Media, e-commerce etc. Therefore IT Act needs Urgent update.

### Note:-

Indian IT Act is considered as a weak Law.

### IT Act Amendments, 2008 :-

Under section 66(A) of IT Act 2000.

- Section 66(A) says that if any image or video is posted on Social Media such that it publically harms the Dignity of the person then it will be considered as a criminal offence.
- After this clause misuse of the Act started happening due to this in 2017 the Supreme court of India abolished clause 'A' of section 66. Clause 'A' only made this Act criminal offence in nature therefore this clause was abolished by the Supreme Court on the basis of it is in violation of the fundamental Right of Right to freedom of Speech and Expression.

---

इस Act का Misuse करने लगे political parties और जो लोग Social Media पर critic करते थे तो उसे इस Act के clause के कारण Jail में डाल देते हैं। और ये violate करते हैं fundamental Right की जो है Right to freedom of Speech and Expression.

Justice Srikrishna Committee:-

for Data privacy and Data Protection :-

The Committee was formed to prevent the miss use of data collection, private Data by Social Media Companies and e-commerce platforms main clause of this committee are:-

1] All Internet Based companies that are involved in collection of private Data/critical Data of people (e.g. Bank Account No., password, private chats etc.) then, these companies must have their data centres within the geographical boundary of the country. This is called as Data localisation.

2] A government appointed authority will visit these data centres and if they find any compromised data then such data can be Deleted from there source only. But this clause was apposed on the basis of violation of Right to Privacy which is a Fundamental Right.

3] Data collected by these companies are people's data and Prior permission must be taken before sharing it.  
Our Data, our property.

Note:- OTT (Over the Top) platforms were also included in IT Act & in Srikrishna Committee report.

[Currently अर्क 1 & 3 clause चल रहा है 2 को abolished कर दिया गया है और 3 clause को company बहुत easily counter कर रहा है like whatsapp चलाने से पहले वो आपसे permission माँगा है।]



## 2006: N eGP :- National e-Governance Programme

### Objectives :-

1] Objective of N eGP is to bring good governance using ICT Based Technology.

→ What is good Governance?

→ Good Governance means using Governance mechanism for the welfare of the people. Good Governance tries to bring maximum welfare for the Maximum No. of people.

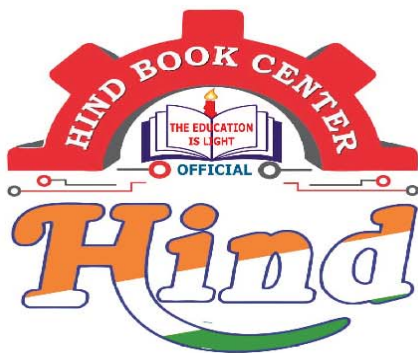
→ In Good Governance Public Institution are managed in such a way that resources are well utilised and it provides realisation of welfare and Human Rights for people.

→ What is e-Governance?

- Good Governance + ICT Tools = e-Governance.
- In e-Governance ICT tools are utilised to reach upto Maximum No. of people and also people can directly reach to the Government is called as e-Governance.

### Objectives of e-Governance :-

- 1] It gives information to the citizen and Informed citizen are empowered citizen.
- 2] Government can directly interact with the citizen and citizen can also directly interact with the Government.
- 3] Citizen can also participate in the Governance directly and bring transparency. A transparent gov. brings good governance.
- 4] It reduces cost & time delay in a project because information flow is very fast.
- 5] It brings more responsibility and Accountability.
- 6] e-Governance reduces corruption because of transparency.
- 7] e-Governance brings Good Governance by reducing time cost, Money cost and Distance cost eg. UPI.



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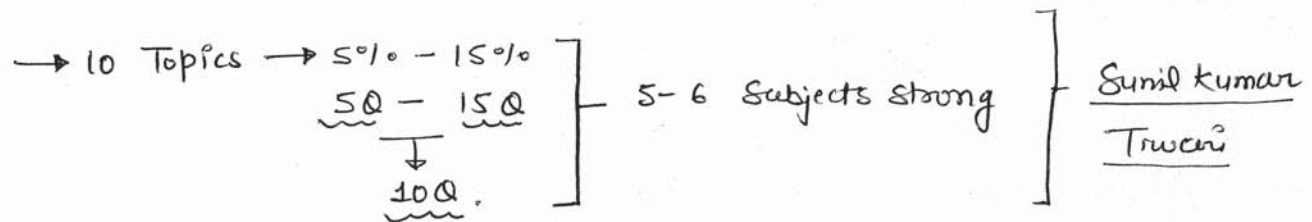
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# Basics of Material Science (GS-Paper-1).



## → Syllabus →

1. Introduction.
2. Atomic structure and chemical Bonding.
3. Crystallography. ★★
4. Electric properties of Materials.
5. Magnetic Properties of Materials.
6. Mechanical properties of Materials. → video बिजली नहीं है।
7. Ceramics. ★★ [2-3 Questions]
8. Polymers. → (Theory Book)
9. Composites.
10. Phase Diagram and alloys.

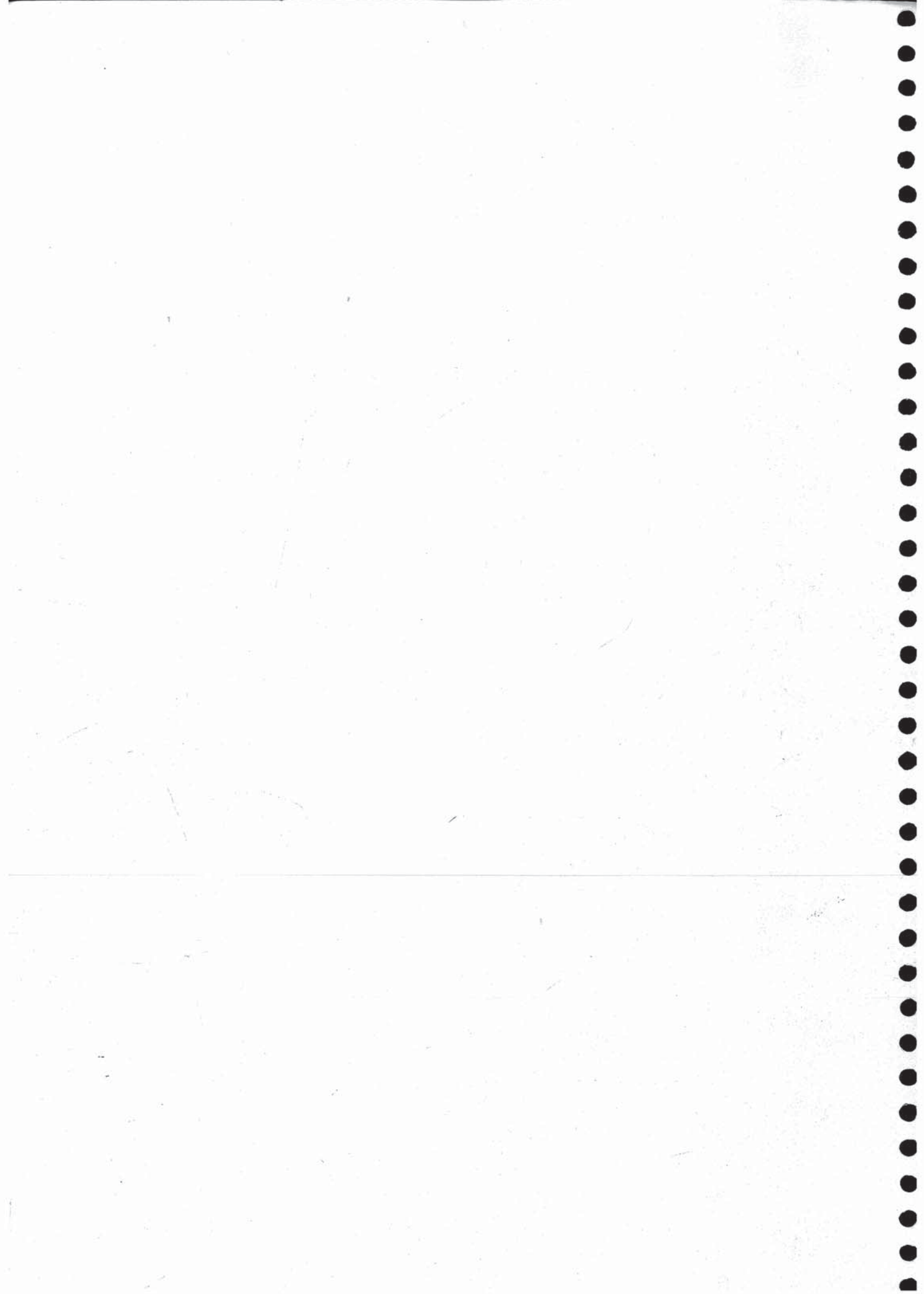
Telegram →

anunadd22

→ Sunil Kumar Tiwari →

Anunad - -- Let's be in Resonance

Videos (G.S.) (Theory Book).





## Introduction

→ What is Material Science?

Material Science deals with investigating the relationship b/w the structure and properties of Materials.

Material Science does not deal with strength and stiffness behaviour of Engineering components (Buildings, Machine, Automobiles) etc, rather it deals with the behaviour of Materials with which these components are made of.

→ What is Material?

Material can be defined as something that consists of Matter. It is the stuff (पदार्थ) by which something can be made.

Engineering Materials can be broadly classified as :-

1. Metals and Alloys.
2. Ceramics and glasses.
3. Organic Polymers.
4. Composites.

Structure :-

The structure of Material usually relates to the arrangement of its internal components. Structures can be classified as :-

- 
- Mass is Defined as Nucleos of the Material. Hence Density also Depends on Nucleos of Material.
  - electronic structure → How electrons are arranged in orbit which indicate chemical properties of Structure.
  - Crystal Structure → How does atom arranged in the Material.

### 1. Nuclear Structure:-

It tells us about the protons and Neutrons in the Nucleus of an Atom it is studied by Nuclear spectroscopic techniques such as (- Mossbauer studies and Nuclear Magnetic Resonance (NMR))

### 2. Electronic Structure:-

It tells us about the Arrangement of Electrons in the various orbits of an atom.

### 3. Crystal Structure:-

It tells us the Details of Atomic Arrangement in a crystal. It is sufficient to Describe the Atomic Arrangement in a crystal with the help of Unit cell.

Unit cell is Defined as the Smallest group of Atoms by Repeating which periodically in all the crystallographic Directions, the crystal structure can be developed.

Any kind of Symmetry in Atomic Arrangement at crystal Structure Level will get Reflected in Micro structure and Macro structure as well.

### 4. Micro Structure:-

It is the structure which can be observed with the help of an optical Microscope.

---

## 5. Macro Structure :-

It is the structure which can be observed with Naked eyes.

### Properties

### Characteristics

A property is a Material trait in terms of the kind and Magnitude of Response to a specific imposed excitation.

Properties of Solid Engg. Material can be broadly classified as :-

- 1] Mechanical Property.
- 2] Electrical Property.
- 3] Magnetic Property.
- 4] Thermal Property.
- 5] Optical Property.
- 6] Deteriorate property.

2017

Consider the following statements \_\_\_\_\_

- 1] Material Science deals with strength and stiffness behaviour of components (Buildings / Machine / Vehical facilities etc.). based on their Response to imposed stresses (forces / Moments / Torque etc)
- 2] Material Properties are Dependent on their Micro structure and Response to force field and the surface interaction.

which of the Above statements is / are correct.

a] One only

c] Both 1 and 2

☒ b] two only.

d] Neither 1 nor two.



2. Consider the following statements regarding Material.

- ☒ 1] In Micro Structure external forms of the Crystal May be Reflect the internal Symmetry of atoms
- ☒ 2] Electronic Structure is Arrangement of electrons in Different Orbits of atom.
- ☒ 3] A crystal is formed by a Non-Repeating Cell in Uni-direction.
- ☒ 4] Nuclear structure can be studied by Mossbauer Studies.

which of the statements are correct

☒ a] 1, 2 and 3.

☒ b] 1, 2 and 4

☐ c] 1, 3 and 4

☐ d] 2, 3 and 4

Q3 which of the Engg. Materials.

☒ 1] Metals and Alloys.

☒ 2] Ceramic and glasses.

☒ 3] Polymers

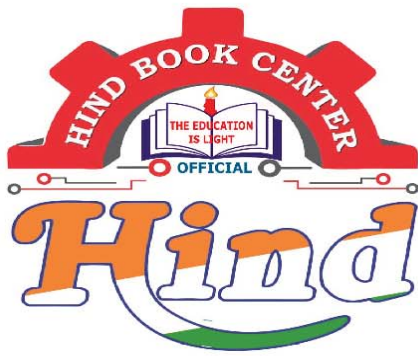
option a] 1 and 2 only

b] 1 and 3 only

c] 2 and 3 only

☒ d] 1, 2, 3.





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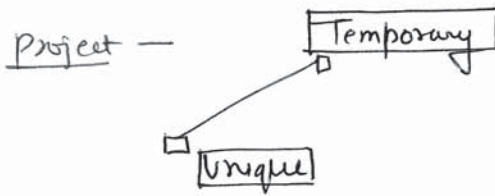
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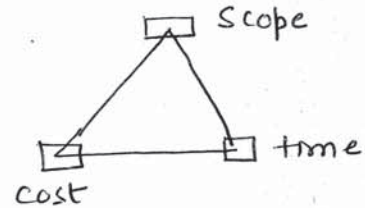
# PROJECT MANAGEMENT

Project:-

→ It is a unique and temporary endeavor to provide service or product.

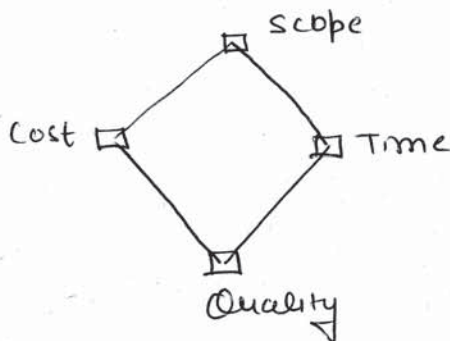


Triangle constraint



Service provider

Diamond constraint

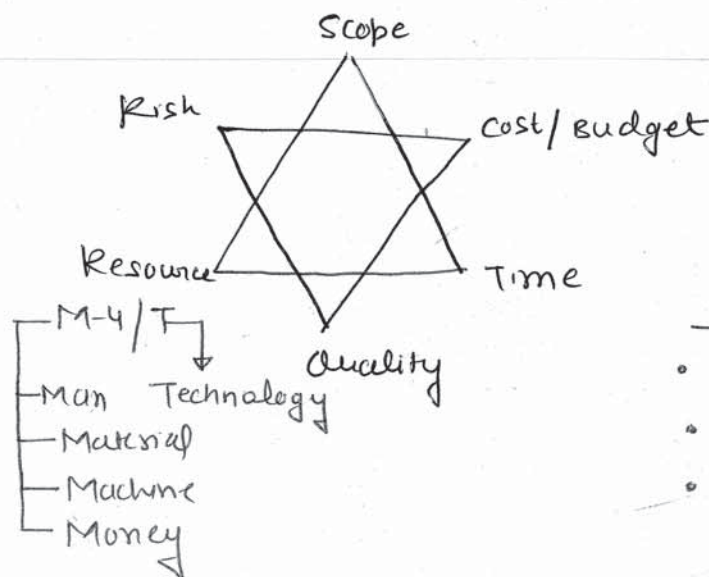


<u>Time</u>	<u>cost</u>	<u>Quality</u>
Quick	cheap	Low
Quick	High	High
High	cheap	High

Star constraint

Project should be

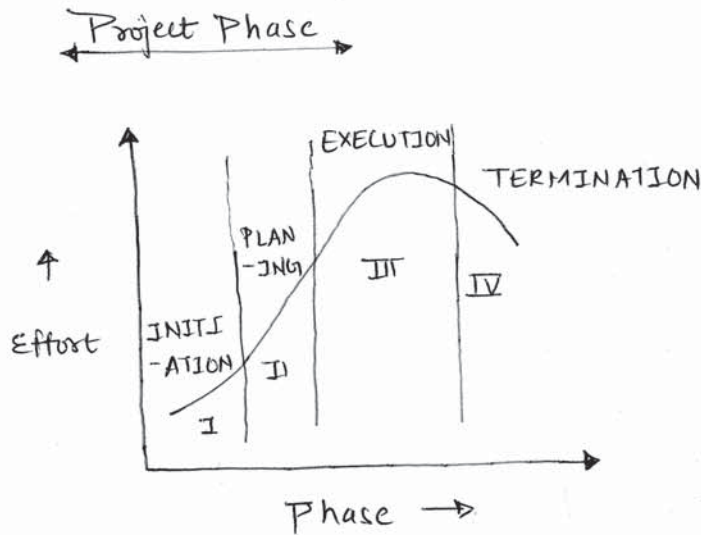
- feasible
- Profitable
- Scalable.



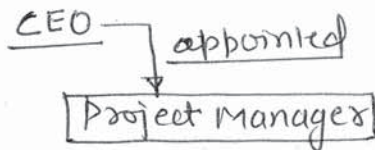
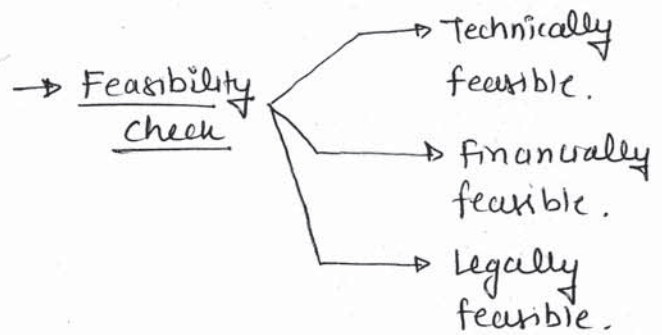
Risk

- Profit
- Competitor
- Speed.





## 1 Initiation

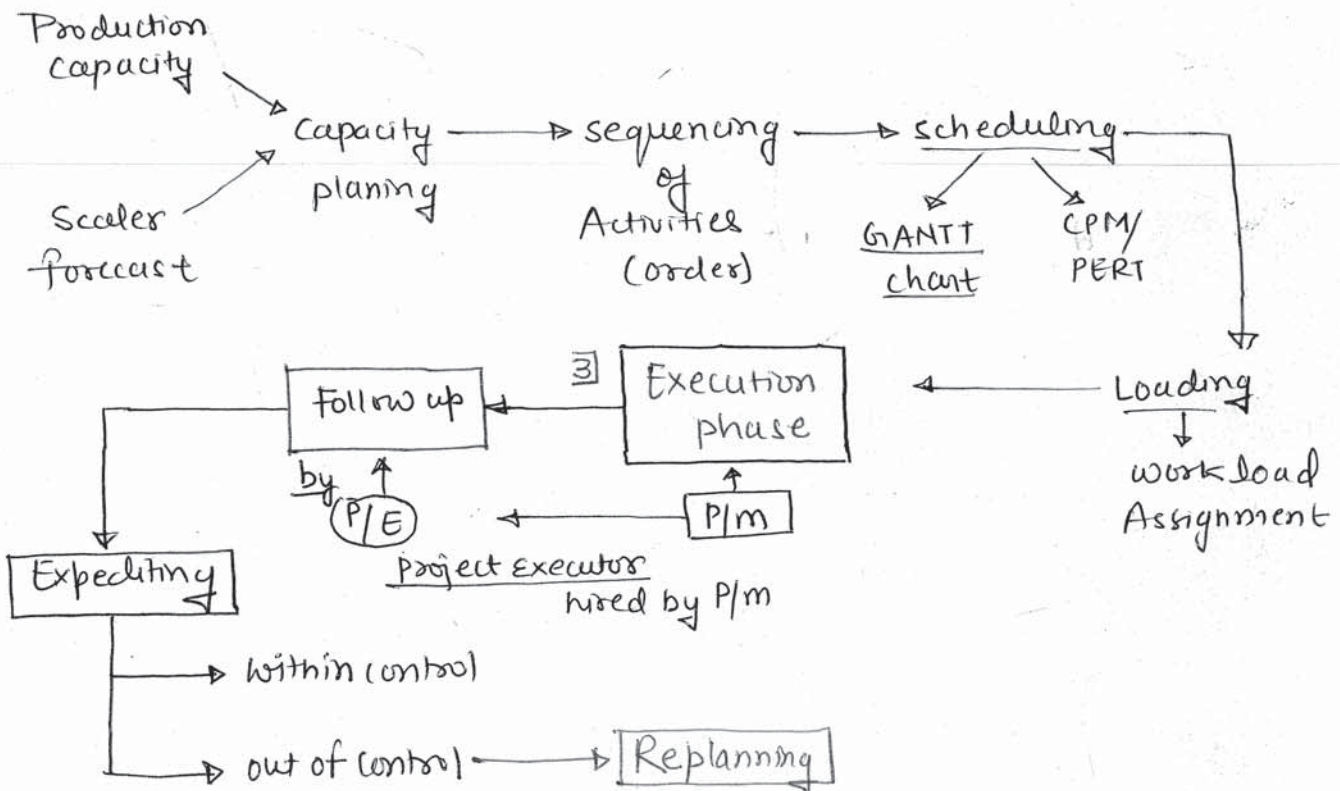


## Project charter

Official Document that authorize P/m to utilize all the resources of the organisation to complete the projects.

## 2 Planning Phase

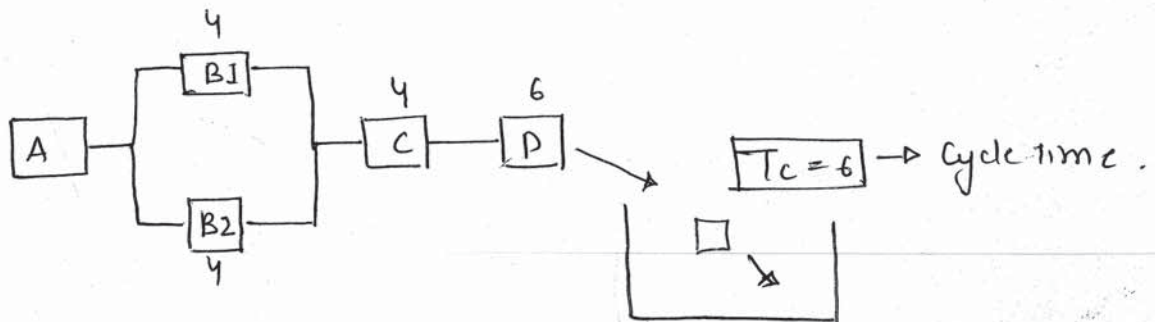
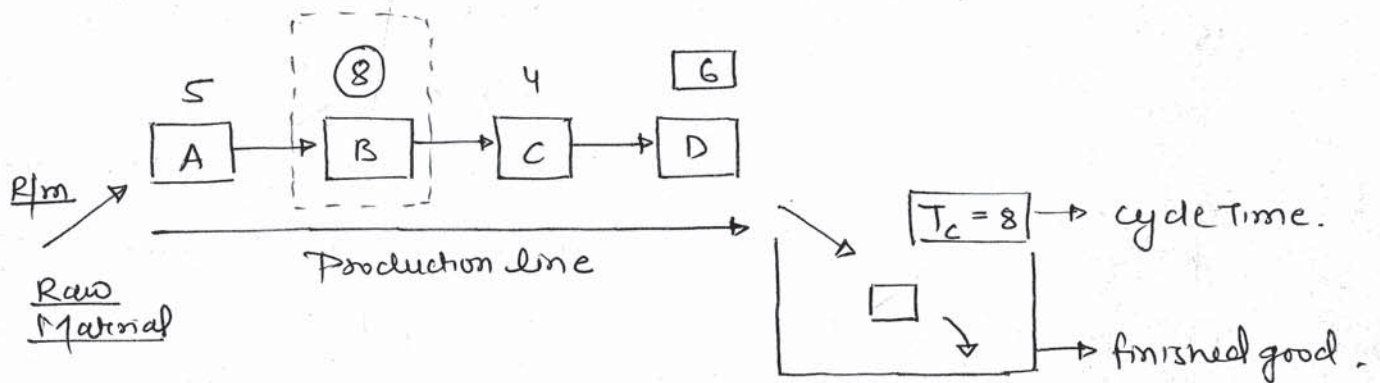
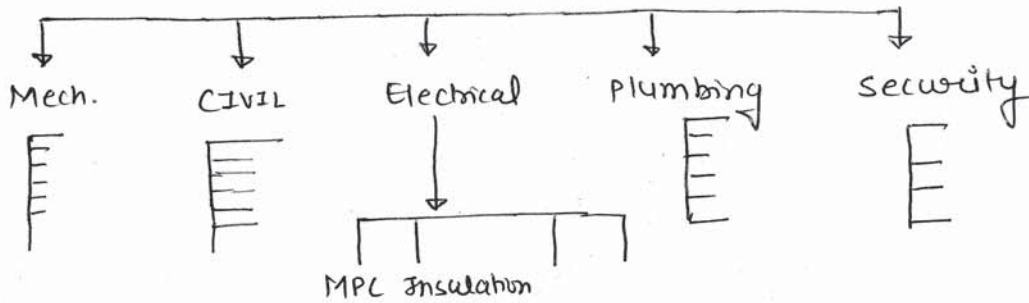
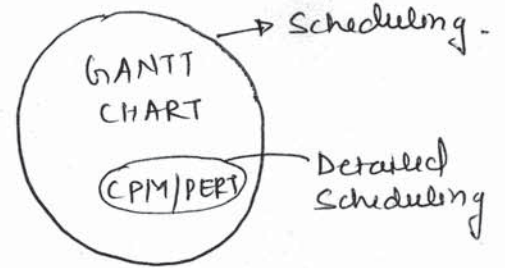
P/m enters into a planning phase and the steps are :-



# PMP (Project Management Planning)

WBS (Work Breakdown Structure)

Project (Level 0)

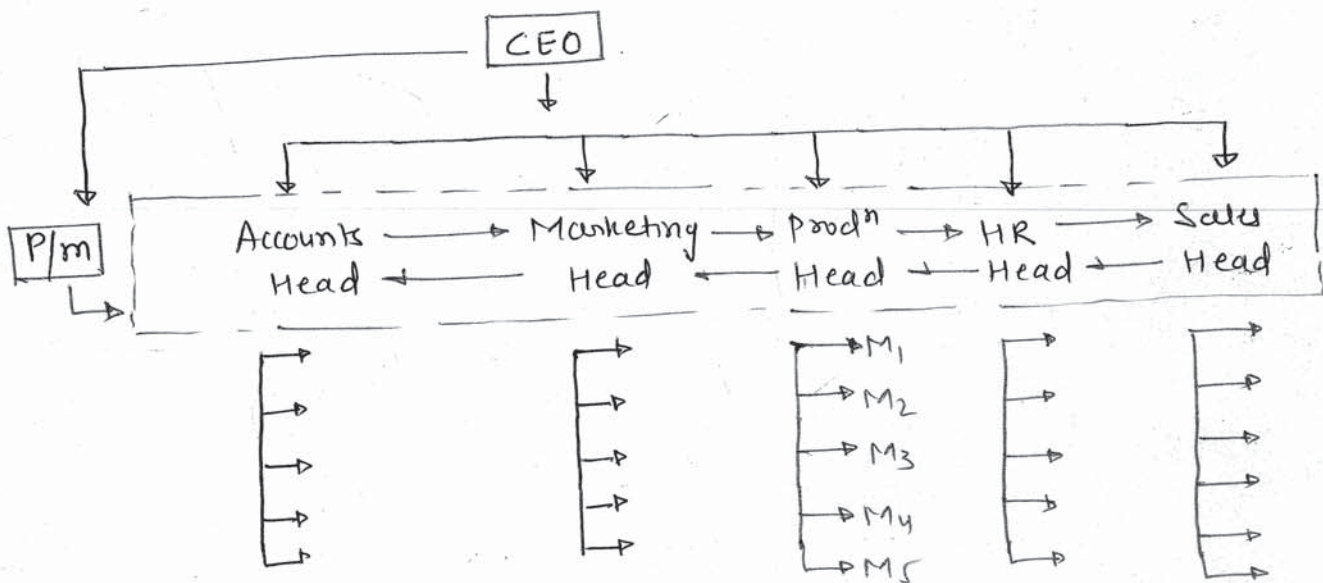


- Smooth flow of operation.
- Resource Allocation (or)
- Push the Deadline

## Project Organisational Structure.

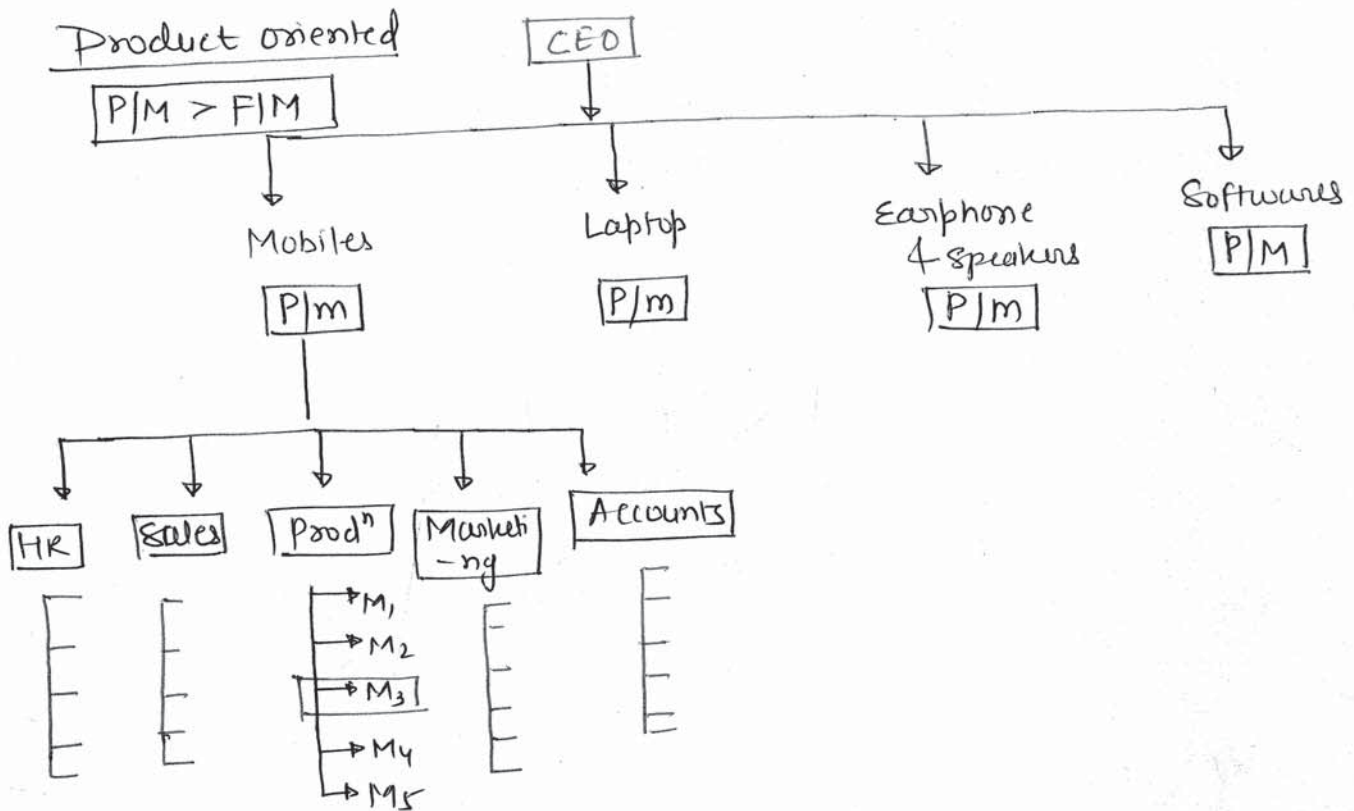
- 1] Functional Organisational Structure.
- 2] Projectized Organisational Structure.
- 3] Matrix Organisational Structure.

- 1] Functional organisational structure :- It is for small company.
- 2] The owner involves in daily operations.
- 3] Project Manager has very limited Authority.
- 4] Since owner takes part in Decision Making Responsibilities are not on the shoulder of PM and FM (functional Managers).
- 5] These companies work in small territories.
- 6] Since employees are directly controlled by functional Manager so they do not Respond Positively to Project Manager.
- 7] It is Difficult to identify the non-performing Asset.
- 8] Overlapping of Resources are allowed.

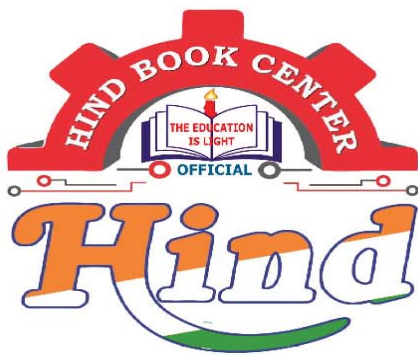




## 2] Projectized Organisational Structure.



- 1] The owner does not participate in day out operations.
- 2] Project Manager is provided with great Authority.
- 3] functional Manager works under project Manager.
- 4] Project Manager's are hired Acc. to various product segment & There is no overlapping of Resources.
- 5] This ~~form~~ structure is meant for large companies working for large scale territories. In this structure the Success or failure is completely depends on Project Manager. Non-performing Asset can easily identify.



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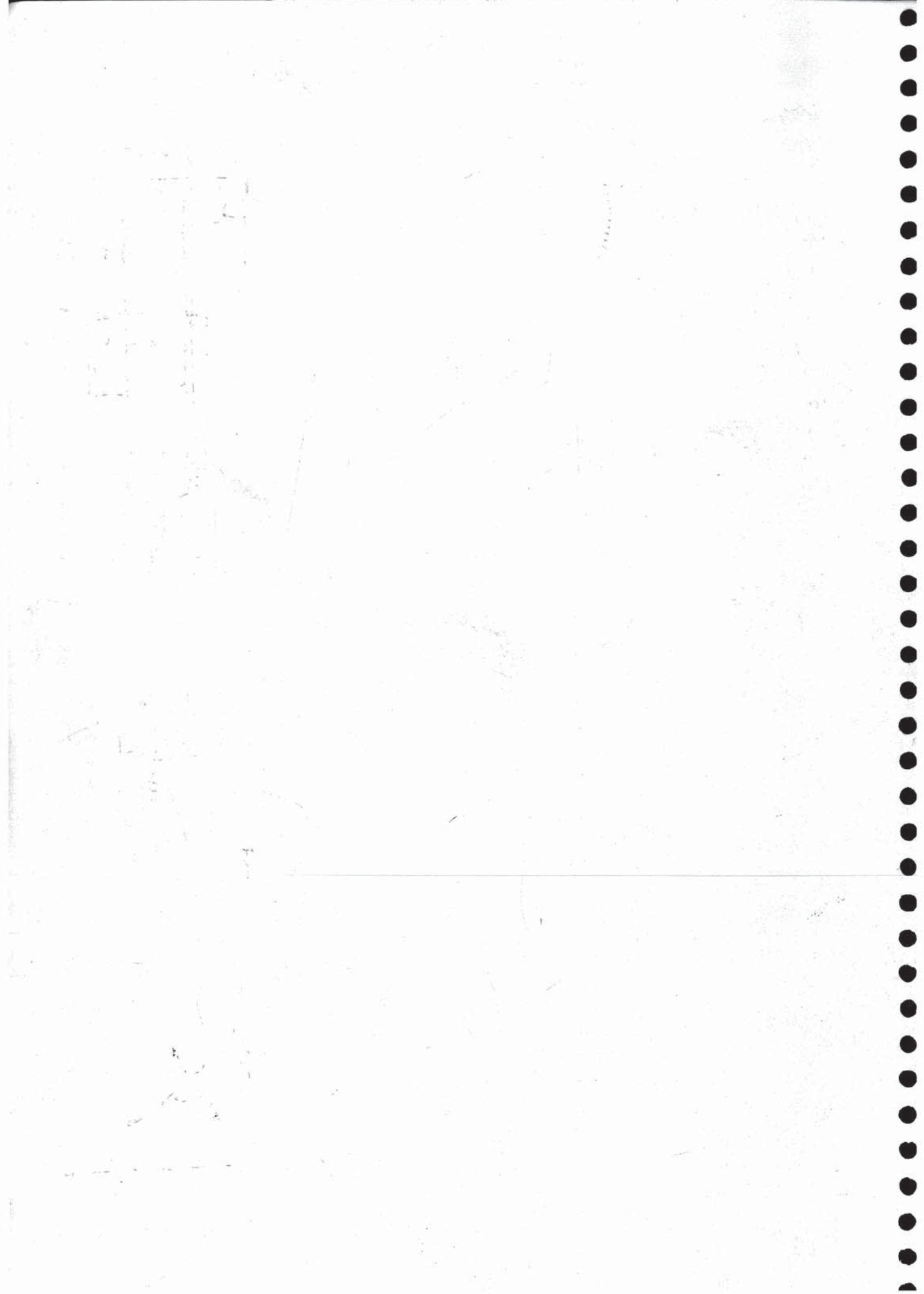
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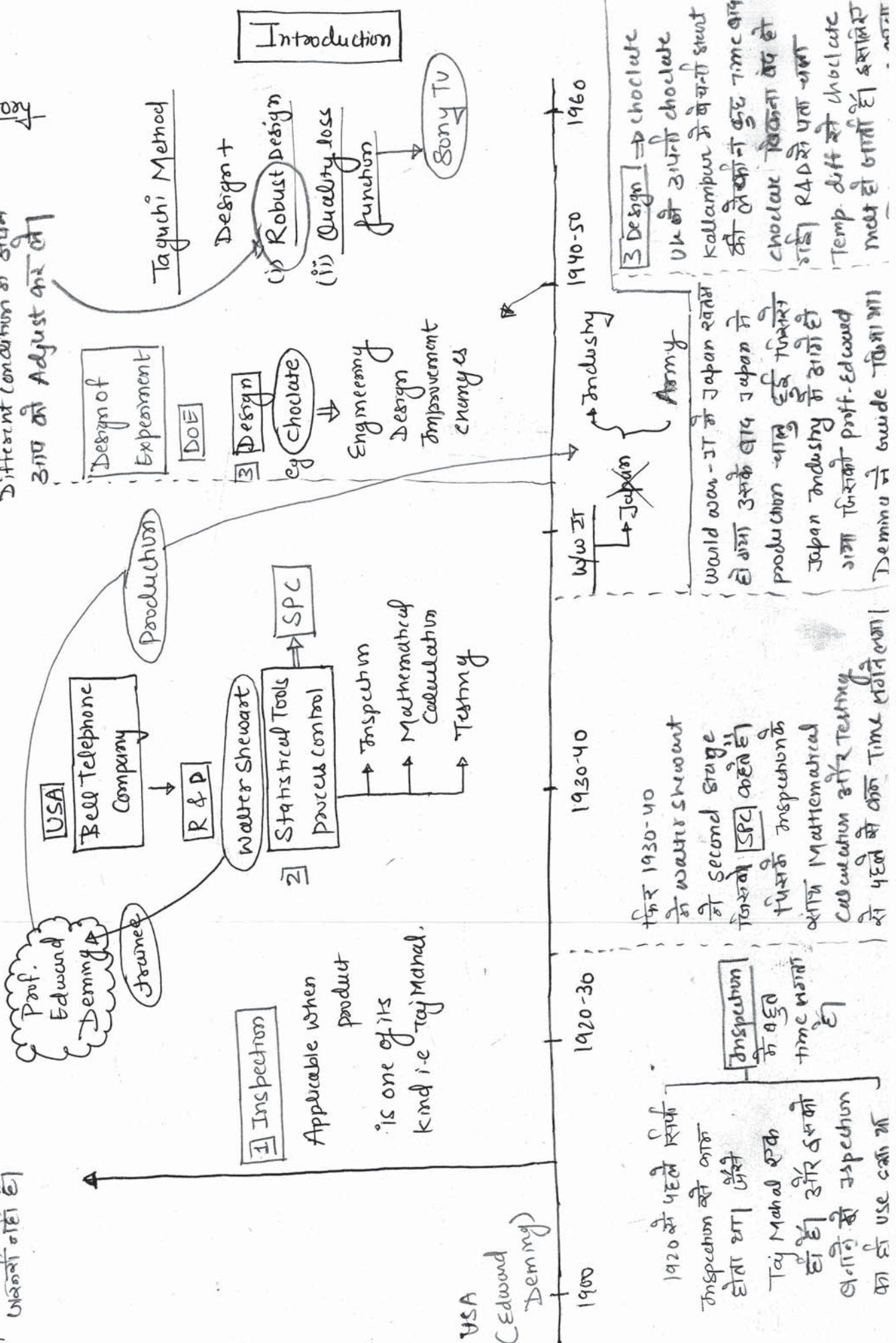
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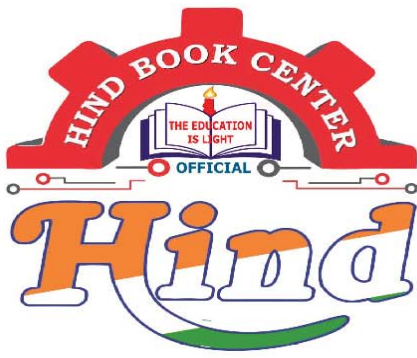
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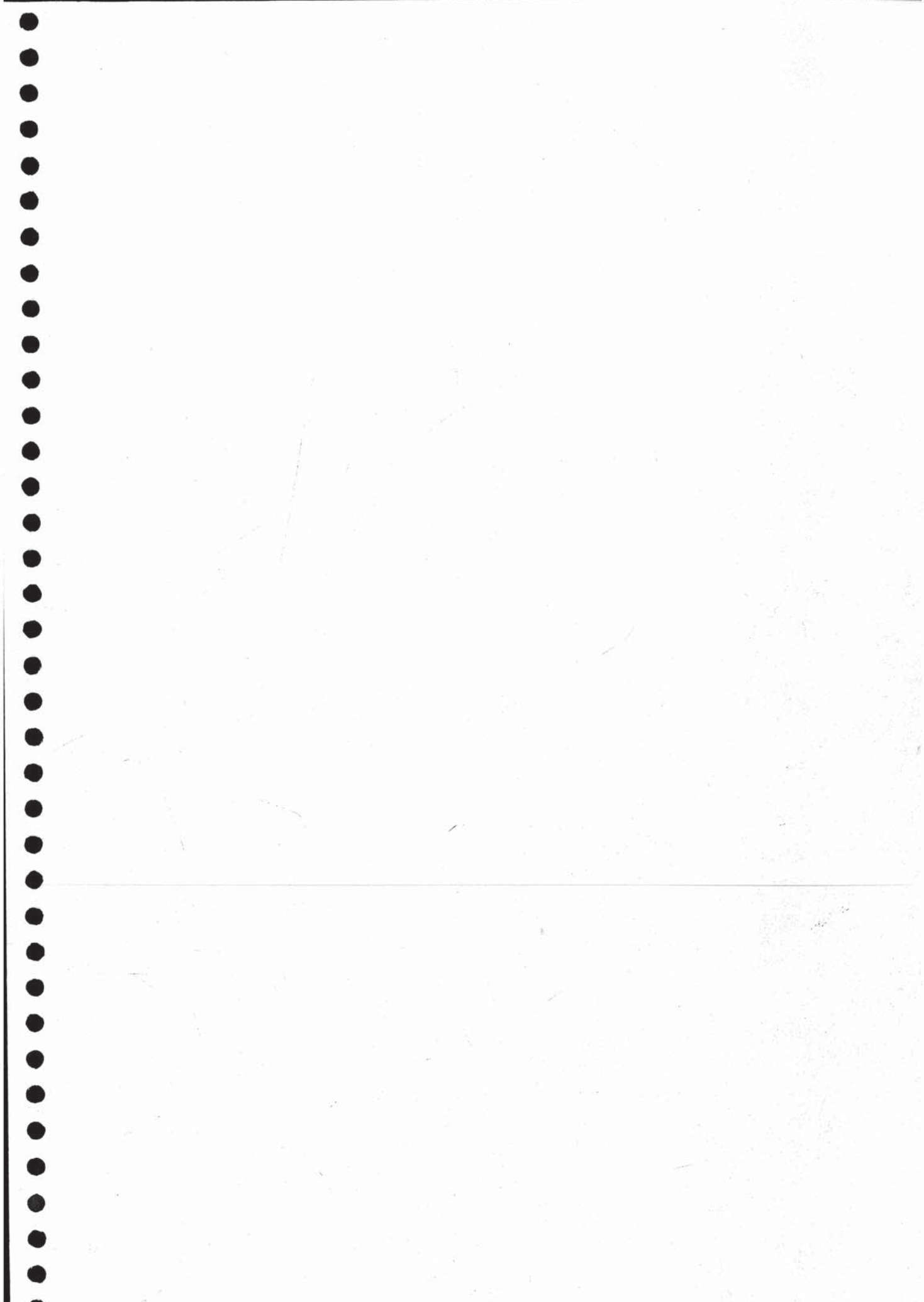
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K.M. Pathi sir

9810123649

## Literal Meaning of Ethics

- The word 'ethics' comes from 'Greek' word, 'ethika', meaning character or custom.
- The word Moral comes from 'Latin mos', meaning custom.

### Ethics

- 1] Refers to professional conduct, values & principles.
- 2] An ideal standard of behaviour
- 3] Conveys sense of stability, permanence.

### Morals

Refers to personal behaviour.

Customs practiced in any given community @ culture.

May change as acceptable social behaviour in the culture(s) change.

## Definition of Ethics

- "a body of prescriptions & prohibitions, do's & don't's" (Jansen & Hellegers).
- "Ethics... may be styled as the art of self government (regulation)" (Bentham).
- "the standards of conduct derived from the philosophical & religious traditions of society" (Means).
- "ethics is concerned about what is right, fair, just @ good; about what ought to do" (Preston).

### Ethics refers to...

- Branch of philosophy which seeks to address concepts of right and wrong.
- Branch of philosophy that is concerned with human conduct.
- Examination of the our moral judgements.