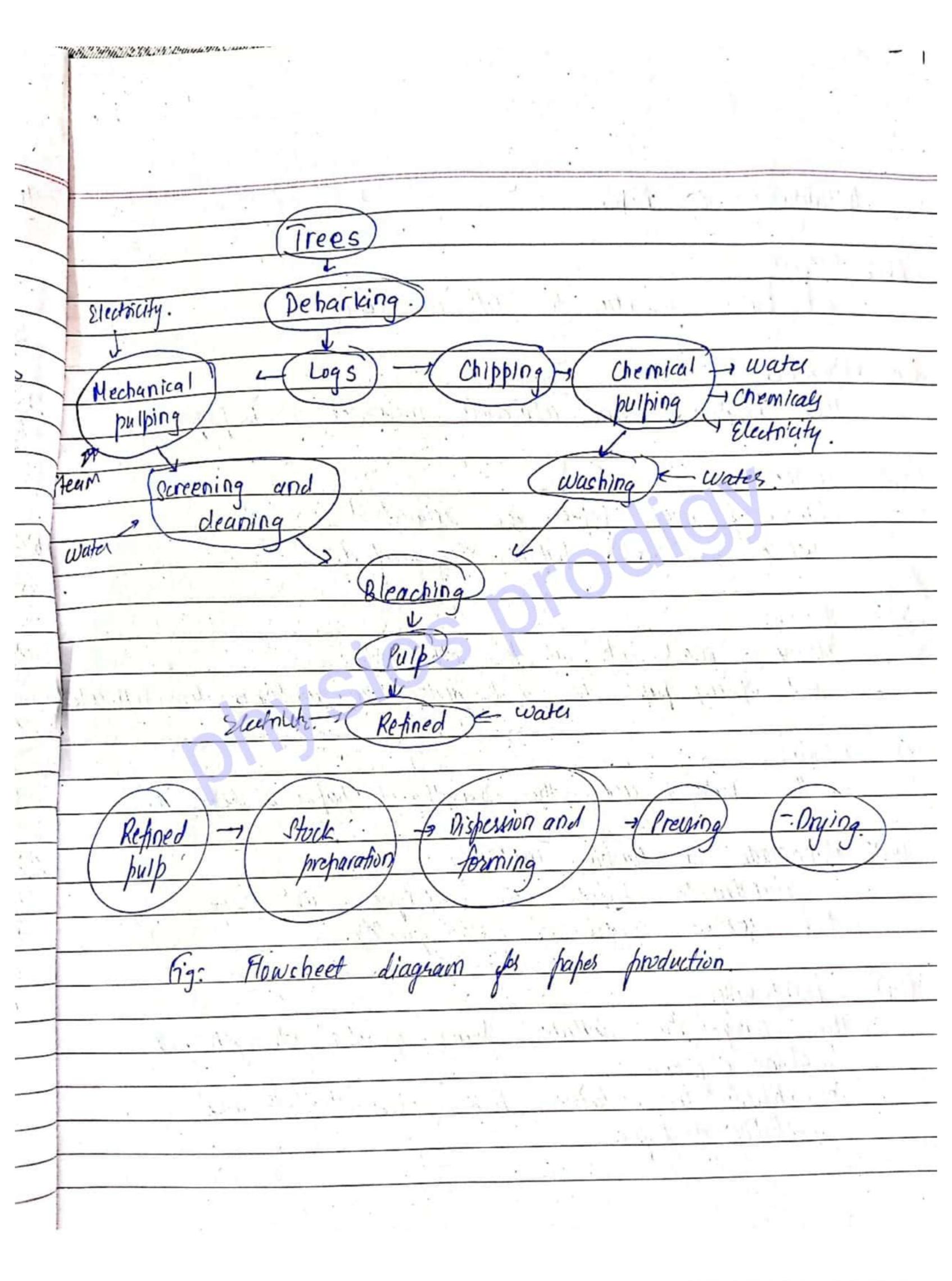
PAPER OND DU				
PAPER AMP DUI	12:			1
Processing cellulose vegetable sources.	eet moderial	produced by	chemically, grasses	mechanically and other
made	1.1.1.	1.	132	
It is wade by. paper, cotton, alo	cluthes, etc.	straw, jute, 1	okto, recy	ded waste
Papers one cla writing papers, d toilet papers.	assified as.	wrapping papes , cigarette p	apess, tis	scue papers.
Raw Haterials in (i): Pulp (ii)	Papes Making Sizing element	g: (iii) Alle	agents. (iv). Pigment.
wood pulp is high quality cell	mostly used	because it 75	a good	wurce of
(a): Pulp:				* *
Pulp is a soft, obtained from ba	mboo, wood	mas of fib	Thres	thrugh
mechanical or		"		
It is i			nes makin	Dg.
				200
			14.*	
	The solid ser		- 10/2	

Pulp is of three types:
. (i): wood pulp!
- Obtained from hardwood and conflowed trees.
o ligna cellulosic fibrous materials.
- wood pulp is environmental friendly.
wood page of the menally.
Cii): Non-wood pulp:
Pulp containing regetable fibres with numerous additives
Helps regulate physical characteristics, printability, aesthetics of
the paper.
- Helps produce high quality papers
(iii) Recycled pulp:
one third of total raw plup pulp.
- Deinking process is used to separate recycled paper pulp
and mixed with fresh pulp to produce different grades of
habess.
(b) Sizing elements: Rosin and starch are used
(b) Sizing elements: Rosin and starch are used. - Rosin is used for internal cizing and provides
wates repistance to papes
- Starch is used for surface sizing to control absorption
of prinking ink.
co: Filles agents:
These are used to enhance paper opacity, smoothnew,
brightness and for achiteping.

(d): Pigments:
Pigments are used to provide different colours to paper.
Stages of Papes Production:
1): Preparation of Raw Material
Includes debarking of wood, chipping, chip handling
and storage.
(b): Preparation of Fiber suspension:
- fibres are separated by digesting the chips in digestos usin steam.
-) Chemical pulp are mude by disgesting chips using Kraft and sulphite process
7 Pulps are mixed with water to form slumy by mechanica
disintegrators and fillers are added.
sizing dements and colouning agents are also mixed.
C7: Bleaching.
- Bleaching is dung to remove addit remaining lignin. - It is treated with chlumate - bleaching agents like
- If is reared with chionnate bleaching agents like
chlorine, hypoch lorite and raustic suda
1 Pumped through a sexual of screens to remove dust on
plaghics.

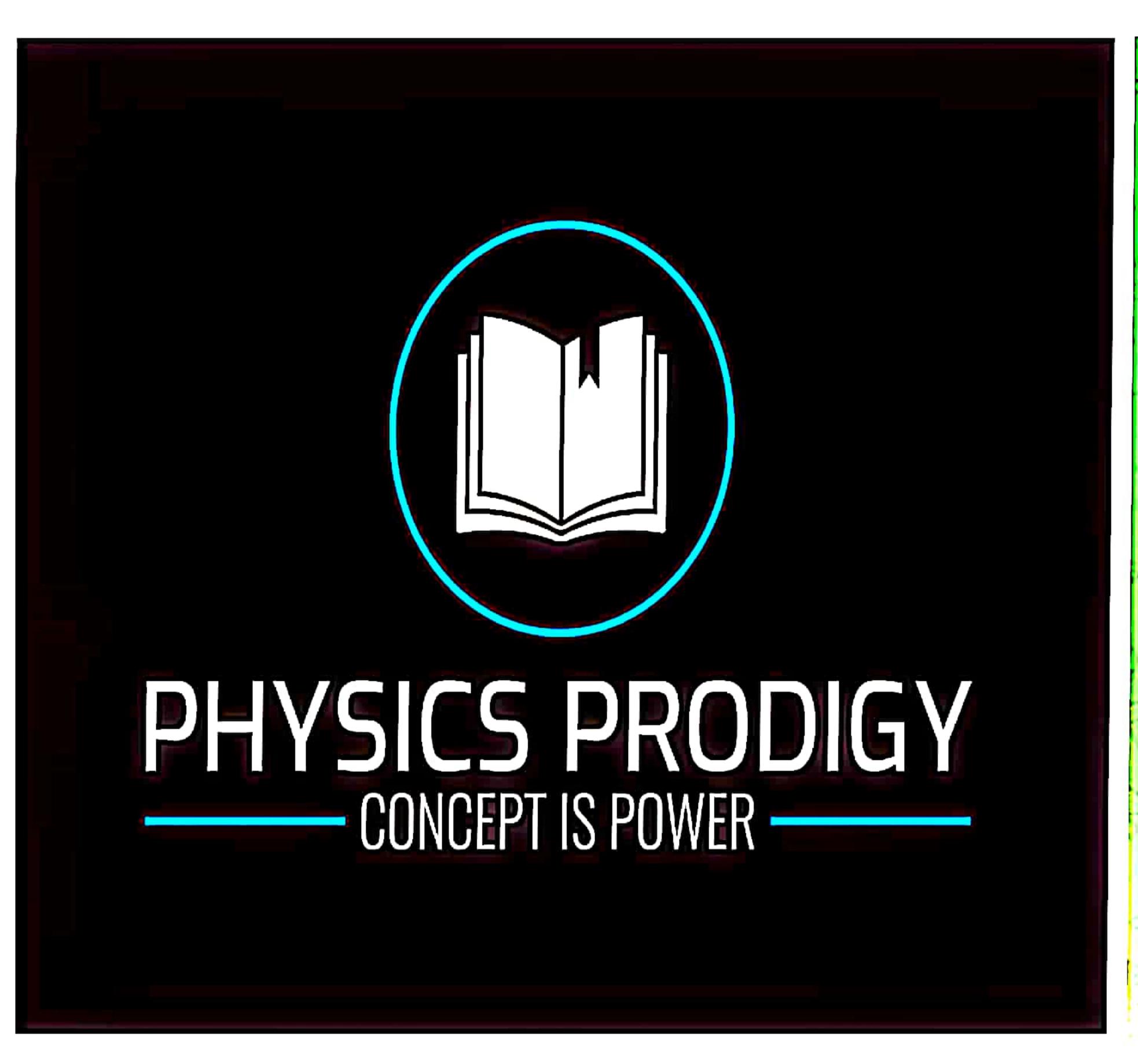


Qualities of Pajes:
_(i): Weight!
wt varies according to different user
(i) Appearance:
More brightness and whiteness indicates good papel quality
(iii) Surface:
Surface of rough papers are unwated
Surface of rough papers are unwated Surface of mouth papers are coasted.
(iv): opacity:
ability to mask ink on the other side.
- Good spacity paper is good quality and writing is done both si
(v): Strangth:
on the ham of use; the Groungth's of paper of different.
(vi): Handmade or Machine mude:
Handmade papers au Annges and have
riches texture and of good quality.
(vi) longevity:
The lunger the cellulose chain, greater strongth and
durability of paper
The shortes the cellulose chain, lesses strength and
durability of paper.

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FOR COMPLETE NOTES OF 42 SCIENCE

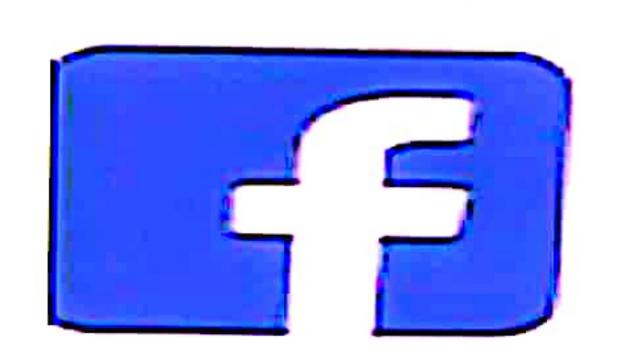
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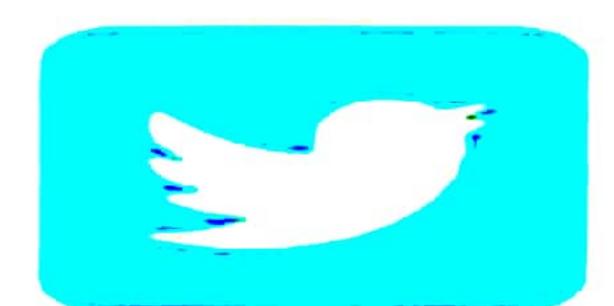


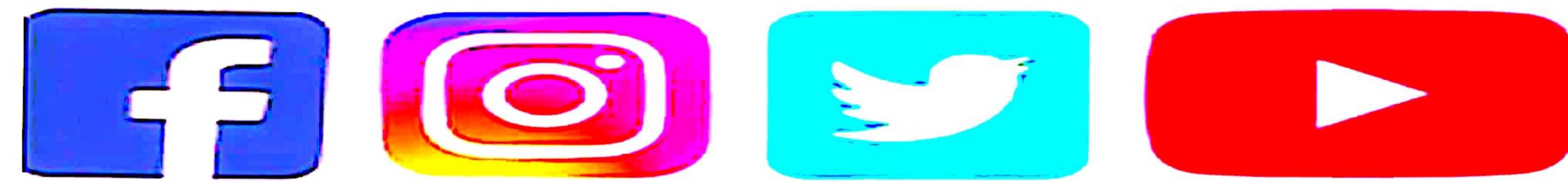
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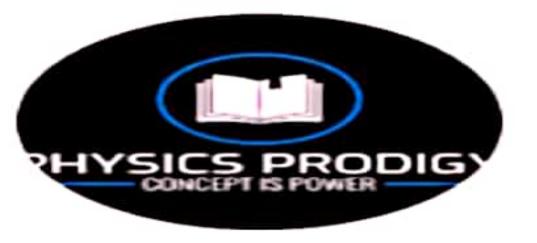








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