

- Q.28 Differentiate open & closed chip storage.
 - Q.29 Expand AA & EA.
 - Q.30 Define white liquor.
 - Q.31 What is acidic pulping?
 - Q.32 Mention any five factors affecting stone ground wood pulping.
 - Q.33 Write the significance of Bio-pulping.
 - Q.34 Differentiate batch & continuous digester.
 - Q.35 Define consistency.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Make neat & clean block diagram for pulp & paper making.

Q.37 Give classification of pulping process. Explain each in detail.

Q.38 Write short note on any two of the following.

 - Lignin & extractives
 - Chip screening
 - Anthraquinon pulping
 - Continuous digester

No. of Printed Pages : 4 180636/120636/030636
Roll No.

3rd Sem / P & P Subject:- Pulp Processes

Time : 3Hrs. M.M. : 100

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Select any one type of fibrous raw material.

 - a) Wood
 - b) Sand
 - c) Plastic
 - d) Brick

Q.2 What is bark?

 - a) Fiber
 - b) outer most layer of wood
 - c) Gum
 - d) Lignin

Q.3 Expand AD.

 - a) Air dry
 - b) Additional dry
 - c) Air drier
 - d) None

Q.4 Choose cementing material.

 - a) Cellulose
 - b) Hemicellulose
 - c) Lignin
 - d) None

- Q.5 Select any one type of debarker.
- a) Drum b) Carthage
c) Norman d) All of the above
- Q.6 Cellulose is _____.
- a) Organic b) Inorganic
c) Alkali d) Acid
- Q.7 Which chemical is used in soda pulping?
- a) Na_2So_4 b) Na_2S
c) Na_2Co_3 d) NaOH
- Q.8 Choose the raw material used for secondary fiber pulping.
- a) Hard wood b) Soft wood
c) Agriculture residue d) Waste paper
- Q.9 On which principal screening is based?
- a) Size b) Shape
c) Density d) All of the above
- Q.10 Which pulping have higher yield?
- a) Chemical b) Mechanical
c) Semicontactual d) Bio-chemical
- SECTION-B**
- Note:** Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$
- Q.11 Is bamboo used for making paper?
- Q.12 Name any one agriculture residue.
Q.13 What is luman?
Q.14 Write the formula of cellulose.
Q.15 Mention name of any one type of chipper.
Q.16 Which chemical is used in chemical debarking of wood?
Q.17 Expand TTA.
Q.18 Where white liquor is used?
Q.19 Name the fungus used in bio-pulping.
Q.20 What is the purpose of secondary fiber pulping.
- SECTION-C**

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

- Q.21 Briefly describe introduction to paper on network of cellulosic fiber.
- Q.22 Write a note on availability of fibrous raw material in context of Indian paper Industries.
- Q.23 Define pulping.
- Q.24 Explain cellulose.
- Q.25 Draw a neat sketch of morphological analysis of fiber.
- Q.26 Write the importance of debarking?
- Q.27 Why chipping is necessary?