

Q.26 Define causticity.

Q.27 Draw a neat sketch of rotary batch digester.

Q.28 What is the scope of biopulping.

Q.29 Explain cellulose and hemicellulose.

Q.30 Mention four parameters of sulphate pulping over soda pulping.

Q.31 In which process chip length is important and why?

Q.32 Give classification of pulping.

Q.33 Explain in detail morphological structure of fiber.

O.34 Write short note on board making

Q.35 Find out the consistency of 150 m³ pulp slurry containing 100 kg OD fiber.

SECTION-D

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

Q.36 Name various types of chip screens. Explain the constructional and working of any one with neat sketch.

Q.37 How do you determine ash content of pulp in lab?
Write in detail.

Q.38 Explain the process parameter maintained in kraft process.

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**3rd Sem / P & P
Subject:- Pulping Processes**

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 Cotton is pure form of .

- a) Pulp
 - b) Protein
 - c) Cellulose
 - d) Vitamins

Q.2 Choose type of hardwood.

- a) Pine
 - b) Eucalyptus
 - c) Bagasse
 - d) Spruce

Q.3 Choose any content of wood.

O.4 Cellulose is

- a) Organic
 - b) Inorganic
 - c) Gas
 - d) Alkali

Q.5 What is the main content of white liquor?

- a) NaOH
- b) Na₂O
- c) Na₂CO₃
- d) Na₂SO₄

Q.6 Select parts of tree.

- a) Leaf
- b) Branch
- c) Stem
- d) All of above

Q.7 Select any one type of debarker.

- a) Carthage
- b) Drum
- c) Norman
- d) None

Q.8 What is lumen?

- a) Fiber
- b) Lignin
- c) Hollow space
- d) Acid

Q.9 Which among the following is grass fiber?

- a) Bamboo
- b) Pine
- c) Straw
- d) Cotton

Q.10 What does outer bark contain?

- a) Pitch
- b) Suberin
- c) Hardwood
- d) None

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define the term sulphidity.

Q.12 Which pulping does not require chemical?

Q.13 Explain bin storage.

Q.14 Name any type of chip storage.

Q.15 Write two derive units.

Q.16 What is the composition of hardwood?

Q.17 What is lignin?

Q.18 What is the time required to determine kappa number?

Q.19 Name fibrous raw material used for making paper.

Q.20 Which screen is used for removing knots?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What do you mean by chest capacity?

Q.22 Write the definition of kmNO₄ number.

Q.23 Explain soda process.

Q.24 How is waste paper processed?

Q.25 Defines extractives.