

- Q.33 Find out the consistency of 200m³ pulp slurry containing 100kp OD fiber .
- Q.34 Give any five advantages of continuous digester over batch digester.
- Q.35 Explain chemical debarking.

SECTION-D

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

- Q.36 Explain in detail morphological analysis of fiber with neat sketch.
- Q.37 Discuss construction and working principle of kamyr Continuous digester with a neat diagram .
- Q.38 Write short notes on any two of the following .
- (A) Lignin & Extractives
 - (B) Chip storage
 - (C) White liquor
 - (D) Alkaline pulping

No. of Printed Pages : 4

180636/120636/030636

Roll No.

3rd Sem / Chemical (P & P)

Subject:- Pulping Processes

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Choose the material for making paper.
- a) Wood
 - b) glass
 - c) stone
 - d) plastic
- Q.2 Which part of wood does not contain fiber?
- a) Bark
 - b) Leaf
 - c) Branches
 - d) stem
- Q.3 Explain OD.
- a) Over dry
 - b) Oven dry
 - c) Over draft
 - d) None
- Q.4 Choose fruit fiber.
- a) Straw
 - b) Wood
 - c) Bamboo
 - d) Cotton
- Q.5 Lignin is a _____ material.
- a) Plastic
 - b) Inorganic
 - c) Cementing
 - d) None

Q.6 Name the chemical used in chemical debarking.

- a) NaOH b) Na₂S
c) Na₂CO₃ d) Sodium Arsenite

Q.7 What is active alkali?

- a) NaOH + Na₂S b) NaOH + 1/2 Na₂S
c) NaOH + Na₂CO₃ d) None

Q.8 Name fungus used in bio pulping.

- a) Ceriporiopsis b) Yeast
c) Molds d) None

Q.9 Which pulping have higher yield?

- a) Chemical b) Mechanical
c) semi chemical d) None

Q.10 Choose the raw material used for secondary pulping.

- a) Bamboo b) Wood
c) Waste paper d) Agriculture

SECTION-B

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

Q.11 Name any two paper industry in India .

Q.12 Which fiber does not require chemical for pulping.

Q.13 What is lumen?

Q.14 Expand TTA.

Q.15 Write the formula of cellulose .

Q.16 Name any one type of chipper.

Q.17 On which principle screening is based.

Q.18 What is black liquor?

Q.19 Name any one factor affecting stone ground wood pulping .

Q.20 Write anyone type of continuous digester.

SECTION-C

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

Q.21 Write a note on sources of fibrous raw material.

Q.22 Define pulping .

Q.23 Explain hemicellulose

Q.24 Draw neat sketch of drum chipper.

Q.25 What is the purpose of chip screening ?

Q.26 Define causticity & sulphidity.

Q.27 Explain sulphate pulping .

Q.28 Explain stone ground wood pulping .

Q.29 Briefly describe the semi chemical pulping.

Q.30 Give the significance of bio pulping.

Q.31 Write the development of paper technology.

Q.32 Why bath ratio is maintained in the digester?