

Q.32 Mention any five points for end uses of semi chemical pulping.

Q.33 What is extended delignification?

Q.34 Draw a neat sketch of batch digester.

Q.35 Define consistency.

SECTION-D

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

Q.36 Briefly describe the block diagram of paper making.

Q.37 Explain vibrating and gyratory chip screen with neat sketch.

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

- a) Hemicellulose
- b) Disc chipper
- c) Bio Pulping
- d) Chest capacity

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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 What is cellulose?

- a) Pulp
- b) Fiber
- c) Plastic
- d) Stone

Q.2 Choose any one content of wood.

- a) Caustic
- b) Glass
- c) Stone
- d) Lignin

Q.3 Which one is the source of fiber for making paper ?

- a) Refinery
- b) Forest
- c) Industry
- d) None

Q.4 Expand AD.

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

Q.5 _____ is a process for making paper pulp.

- a) Chemical
- b) Mechanical
- c) Semi chemical
- d) All of the above

Q.6 Select any one type of debarker.

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

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Q.7 Which chemical is used in soda pulping?

- a) NaOH
- b) Na_2S
- c) Na_2CO_3
- d) Na_2SO_4

Q.8 Which one is not a type of pulping for wood chips?

- a) Bio pulping
- b) Chemical pulping
- c) Mechanical pulping
- d) Lignin pulping

Q.9 How much temperature is kept during the cooking of wood chips in the digester?

- a) $140-150^\circ\text{C}$
- b) $150-160^\circ\text{C}$
- c) $160-170^\circ\text{C}$
- d) $180-190^\circ\text{C}$

Q.10 Name the raw material used for secondary fiber pulping.

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

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

Q.11 Name any one fruit fiber.

Q.12 Is eucalyptus hard wood or soft wood?

Q.13 Name various part of tree.

Q.14 Which pulping is used for making pulp.

Q.15 Is lignin organic or inorganic?

Q.16 Why outer most layer of wood is removed?

Q.17 Name any one type of chip screening.

Q.18 What is active alkali?

Q.19 Which chemical is used in sulphate pulping?

Q.20 Name any one type of batch digester.

SECTION-C

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

Q.21 Write a note on fibrous raw material

Q.22 Explain introduction to paper on network of cellulosic fibre.

Q.23 Define pulping

Q.24 Draw a neat sketch of morphological analysis of fiber

Q.25 Define cellulose

Q.26 what is debarking?

Q.27 Write the importance of chipping.

Q.28 Differentiate open & close chip storage.

Q.29 Give definitions of TTA & EA.

Q.30 Write a note on cooking cycle.

Q.31 List various factor affecting stone ground wood pulping.