

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

- 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. (10x1=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. (12x5=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.