

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Classify various types of agitators used in stock preparation . Explain any one of them in details with a neat sketch.
- Q.24 Explain the theory of beating and refining . what are the effects of beating and refining on fiber structure?
- Q.25 Explain the construction and working of one mill beater with the help of diagram.

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3rd Sem / CHEMICAL ENGINEERING(P&P)

Subject : STOCK PREPARATION -1

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Choose the purpose of beating.
- a) Folding b) Soften fiber
c) Bleaching d) None
- Q.2 Thickeners are used for increasing _____ of slurry.
- a) Bonding b) Water
c) Consistency d) None
- Q.3 Choose the mill beater.
- a) Hollander b) Roller
c) poller d) None

Q.4 Where waste paper is used ?

- a) Beating b) Refining
- c) Hydrapulper d) Agitator

Q.5 What is the purpose of Agitator?

- a) Stirring b) Cutting
- c) Bleaching d) Slushing

Q.6 Choose the type of refiners in refining .

- a) Cubical b) Circular
- c) Triangular d) Double Disc

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

Q.7 Name any one scope of stock preparation.

Q.8 Expand BSF .

Q.9 What is the effect of consistency in beating?

Q.10 Expand the term SR.

Q.11 What is the objective of Refining?

Q.12 Define pulp consistency.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

Q.13 Distinguish between the continuous and batch system of beating.

Q.14 Describe the working of any one save all used in paper industry?

Q.15 Explain the de-zurik consistency regulator in brief?

Q.16 Write the procedure for measuring the degree SR of beaten pulp slurry.

Q.17 Write the method of measuring the specific surface of paper .

Q.18 Describe the significance of pulp blending for manufacturing of paper.

Q.19 Draw a neat sketch of hydrapulper .

Q.20 Write any three methods for measuring the fiber length .

Q.21 Differentiate pigments and paper making dyes.

Q.22 write a note on refining of strength properties.