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220635

3rd Sem. / Chemical (Pulp & Paper)

Subject : Stock Preparation-I

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 Thickners 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. (6x1=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. (8x4=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.

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 detail 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.