

- Q.27 Draw a neat sketch of hydropulper.
- Q.28 Write any three methods for measuring the fiber length.
- Q.29 Differentiate pigments and paper making dyes.
- Q.30 Write a note on refining of strength properties.
- Q.31 Explain stock flow diagram.
- Q.32 Define wettability.
- Q.33 Explain the use of CMC in paper industry.
- Q.34 Describe the importance of hemi-cellulose in beating and refining.
- Q.35 Mention any two uses of pocher.

Section-D

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

- Q.36 Classify various types of agitators used in stock preparation. Explain any one of them in details with a neat sketch.
- Q.37 Explain the theory of beating and refining. What are the effects of beating and refining on fiber structure?
- Q.38 Explain the construction and working of one mill beater with the help of diagram.

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**4th Sem. Branch: P & P
Sub : Stock Preparation - 1**

Time : 3 Hrs. M.M. : 100

SECTION-A

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

- Q.1 Choose the purpose of beating
- | | |
|--------------|-----------------|
| a) Folding | b) Soften fiber |
| c) Bleaching | d) None |
- Q.2 Tickeners 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) Hydropulper | 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
- Q.7 Choose the formula of cellulose
- a) CHO b) $C_3H_4O_{10}$
 - c) $CH_{10}O_4$ d) $(C_6H_{10}O_5)_n$
- Q.8 What is the purpose of potcher?
- a) Bleaching b) Mixing
 - c) Both A & B d) Coloring
- Q.9 Choose any one consistency regulator.
- a) Kalley b) Save all
 - c) PFI d) None
- Q.10 What is the effect of beating operation on the quality of pulp?
- a) Its density decreases
 - b) Its density increases
 - c) Has no effect on density
 - d) Has no effect on any property

Section-B

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

- Q.11 Name any one scope of stock preparation.

- Q.12 Expand BSF.
- Q.13 What is the effect of consistency in beating?
- Q.14 Expand the term SR.
- Q.15 What is the objective of Refining?
- Q.16 Define pulp consistency.
- Q.17 Why thickeners are used?
- Q.18 What is pulp blending?
- Q.19 Expand DDR.
- Q.20 Mention any two uses of alum.

Section-C

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

- Q.21 Distinguish between the continuous and batch system of beating.
- Q.22 Describe the working of any one save all used in paper industry?
- Q.23 Explain the de-zurik consistency regulator in brief?
- Q.24 Write the procedure for measuring the degree SR of beaten pulp slurry.
- Q.25 Write the method of measuring the specific surface of paper.
- Q.26 Describe the significance of pulp blending for manufacturing of paper.