

- Q.30 Differentiate pigments and paper making dyes (any 5).

Q.31 Draw a neat sketch of wide angle refiner.

Q.32 Explain the use of CMC in paper industry.

Q.33 Explain the working of valley beater with a neat sketch.

Q.34 Give any five effect of pH in beating of pulp slurry.

Q.35 Explain the working of PFI mill.

## **SECTION-D**

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

- Q.36 Explain in detail the scope and importance of stock preparation.
  - Q.37 Describe the effect of beating and refining on the strength properties of paper.
  - Q.38 Classify various types of agitators. Explain any one of them in detail with neat and clean diagram.

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**4th Sem / (P&P)**  
**Subject:- Stock Preparation - I**

Time : 3Hrs. M.M. : 100

## **SECTION-A**

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

- Q.1 Hydra pulper is used for \_\_\_\_\_ of paper  
a) Beating b) Refining  
c) Processing d) None

Q.2 Refining is a \_\_\_\_\_ treatment  
a) Chemical b) Mechanical  
c) Both d) None

Q.3 Choose the mill beater  
a) Poller b) Roller  
c) Hollander d) None

Q.4 Loading is related to \_\_\_\_\_  
a) Chemical b) Beating  
c) Refining d) None

Q.5 Choose the standard term used in stock prep  
a) Cutting b) Beating  
c) Refining d) A & B

Q.6 Which property of paper sample can be measured by cobb test?

- a) Length
- b) Breadth
- c) Absorption of liquid
- d) None

Q.7 What is the purpose of potcher?

- a) Mixing
- b) Bonding
- c) Bleaching
- d) Coloring

Q.8 Clarified white water is used for \_\_\_\_\_ for stock preparation

- a) Bonding
- b) Showers
- c) Mixing
- d) None

Q.9 Choose the formula of cellulose.

- a)  $(C_6H_{10}O_5)_n$
- b)  $C_3H_4O_{10}$
- c) CHO
- d)  $CH_{10}O_4$

Q.10 What is hydropulper?

- a) Agitator
- b) Cutter
- c) Beater
- d) None

### SECTION-B

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

Q.11 Why thickeners are used?

Q.12 Define pulp consistency.

Q.13 Expand DDR.

Q.14 Name the working principle of thickner.

Q.15 Expand BSF.

Q.16 Mention the relation between OSR and °CSF.

Q.17 Write the use of PFI mill.

Q.18 Expand pH.

Q.19 Define consistency.

Q.20 Mention any two uses of alum.

### SECTION-C

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

Q.21 Describe Schopper Reigler.

Q.22 How can we measure the WRV of a pulp sample? Explain in detail.

Q.23 Write a note on Trimby consistency regulator.

Q.24 Write a note on refining of strength properties.

Q.25 Explain stock flow diagram.

Q.26 Write any five operations of beaters.

Q.27 Describe the significance of pulp blending for manufacturing of paper.

Q.28 Define freeness of paper.

Q.29 Without beating, is it not possible to get good quality of paper? Explain the reason for your answer.