

- Q.28 How can we measure the water retention value of a beaten pulp sample?
- Q.29 Write the procedure for measuring the degree SR of beaten pulp slurry.
- Q.30 Name any five importance of stock preparation.
- Q.31 Draw a neat sketch of hydra pulper.
- Q.32 Define wettability.
- Q.33 Explain briefly the best suited range of temperature for the case of beating and refining.
- Q.34 Define kalley consistency regulator.
- Q.35 Differentiate pigment and paper making dyes.

#### SECTION-D

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

- Q.36 Explain the detail the scope and importance of stock preparation.
- Q.37 Explain the construction and working of one mill beater with the help of diagram.
- Q.38 Explain the theory of beating and refining. What are the effects of beating and refining on fiber structure?

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#### 4th Sem / Chemical (P&P) Subject : Stock Preparation 1

Time : 3 Hrs.

M.M. : 100

#### SECTION-A

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

Q.1 Choose any one consistency regulator.

- a) De Zurik                      b) Save all  
c) PFI                              d) None

Q.2 Hydra pulper is used for processing\_\_\_\_\_.

- a) Chips                              b) Pulp  
c) Waste Paper                      d) None

Q.3 Loading is related to \_\_\_\_\_.

- a) Chemical                              b) Beating  
c) Refining                              d) All

Q.4 What is Hydrapulper?

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

Q.5 What is stock preparation?

- a) Beating                              b) Loading  
c) Refining                              d) All

- Q.6 Choose the mill beater  
 a) Poller                      b) Roller  
 c) Hollander                d) None
- Q.7 Expand OD.  
 a) Over Dry                b) Over day  
 c) Oven dry                d) None
- Q.8 What is the purpose of agitator?  
 a) Stirring                b) Cutting  
 c) Refining                d) None
- Q.9 Choose the purpose of beating.  
 a) Folding                b) Swell fiber  
 c) Bleaching                d) None
- Q.10 Refining is a \_\_\_\_\_ treatment.  
 a) Chemical                b) Mechanical  
 c) Semi chemical                d) None

#### SECTION-B

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

- Q.11 Write any one importance of stock preparation.  
 Q.12 Write one effect of beating.  
 Q.13 Is grinding of pulp necessary?

- Q.14 Write any one name of refiner used in paper industry.  
 Q.15 Why PFI mill is used?  
 Q.16 Which chest is used in stock preparation?  
 Q.17 Is beating of pulp necessary?  
 Q.18 What is pulp blending?  
 Q.19 Write the working principle of thickener.  
 Q.20 Expand the term CSF.

#### SECTION-C

**Note:** Short answer type questions. Attempt any Twelve question put of fifteen questions. (12x5=60)

- Q.21 Write any three methods for measuring the fiber length.  
 Q.22 Write any five effect of pH is beating and refining of pulp slurry.  
 Q.23 Mention any two main uses of potcher in detail  
 Q.24 Why CMC is used in paper Industry?  
 Q.25 Describe the importance of hemi-cellulose in beating and refining.  
 Q.26 Distinguish between the continuous and bath system of beating.  
 Q.27 What do you mean by stock proportioning system?