

- Q.27 Draw neat sketch of hydropulper.
- Q.28 What is the working of de-zurik consistency regulator?
- Q.29 Describe the method of measurement of CSF of a beaten stock.
- Q.30 Explain the function of save-all.
- Q.31 Mention main uses of potcher.
- Q.32 Write any five effect of PH in beating of pulp slurry.
- Q.33 Explain stock flow diagram.
- Q.34 Discuss the significance of pulp blending for manufacturing of paper.
- Q.35 Give a detailed overview of PFI mill.

#### SECTION-D

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

- Q.36 A chest is having  $100\text{m}^3$  pulp slurry of 3% consistency. How much water will be required to make its consistency 3%?
- Q.37 Explain the working & constructional detail of any one refiner with neat sketch.
- Q.38 Write short note on any two of the following.
- Chest used in stock preparation
  - Trimby and area consistency regulator
  - Wettability
  - Thickener

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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 What is the effect of beating on fiber?
- Increasing fiber area
  - Decreasing fiber area
  - No change in fiber area
  - None
- Q.2 Which agitator is used to mix the pulp?
- Oelical screw agitator
  - Helical screw agitator
  - Pelical screw agitator
  - None
- Q.3 Hydrapulper work as \_\_\_\_\_
- Agitator
  - Digester
  - Beater
  - Refiner
- Q.4 Higher fibrillation can be obtained in \_\_\_\_\_
- Bleaching
  - Beating
  - Washing
  - None

- Q.5 Expand the term of AD.  
 a) Air dense                      b) Air dye  
 c) Air dry                        d) None
- Q.6 In which section beating is carried out?  
 a) Chipper section              b) Bleaching section  
 c) Pulp section                 d) None
- Q.7 Choose any one type of beater.  
 a) Kalley beater                b) Valley beater  
 c) Trimby beater               d) None
- Q.8 What is called the machine that is responsible for most secondary fiber pulping.  
 a) Digester                      b) Hydrapulper  
 c) Beater                        d) Refiner
- Q.9 Which is an early device used to treat pulp to improve the paper making properties.  
 a) Beater                        b) Refiner  
 c) Disintegrator                d) Hinge
- Q.10 What are the two types of refiners in refining?  
 a) Circular & Triangular  
 b) Cubical & cuboidal  
 c) Disk & conical  
 d) Conical & circular

#### SECTION-B

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

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

- Q.12 Name any one effect of beating on pulp.
- Q.13 Why blending is necessary?
- Q.14 Give the name of any one type of refiner used in paper industry.
- Q.15 Expand BSF.
- Q.16 What is the function of chest used in stock preparation.
- Q.17 Which equipment is used to increase the consistency of pulp?
- Q.18 On which principle kalley consistency regulator works?
- Q.19 Write the relation between SR & CSF.
- Q.20 What is the formula of consistency?

#### SECTION-C

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

- Q.21 Write a note on stock preparation.
- Q.22 List importance of stock preparation.
- Q.23 What are the common term used in stock preparation section of paper mill? Explain any one.
- Q.24 Explain any one type of agitator used in stock preparation.
- Q.25 Differentiate beating & refining.
- Q.26 List various strength properties of paper affected by beating & refining.