

- 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 100m^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?

 - a) Increasing fiber area
 - b) Decreasing fiber area
 - c) No change in fiber area
 - d) None

Q.2 Which agitator is used to mix the pulp?

 - a) Oelical screw agitator
 - b) Helical screw agitator
 - c) Pelical screw agitator
 - d) None

Q.3 Hydrapulper work as _____

 - a) Agitator
 - b) Digester
 - c) Beater
 - d) Refiner

Q.4 Higher fibrillation can be obtained in _____

 - a) Bleaching
 - b) Beating
 - c) Washing
 - d) 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. $(10 \times 1 = 10)$

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

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- 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. $(12 \times 5 = 60)$

- 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.

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