

- Q.31 Discuss types of Press arrangement briefly.
- Q.32 Why trimming is required on paper machine? Explain.
- Q.33 Name sheet transfer operations Discuss them briefly.
- Q.34 Name various types of approach flow systems. Explain briefly anyone.
- Q.35 Explain briefly working of twin vertical sheet formation system.

Section-D

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

- Q.36 Write a short note on
- Theory and mechanism of wet web pressing operation
 - Sequence of wire part operation
- Q.37 Calculate production of paper in ton per day if paper machine is running at 250 m/min producing paper of 45gsm and deckle of 3.5m.
- Q.38 Name various accessories of wire part of paper machine. Discuss each accessory in detail with diagrams.

No. of Printed Pages : 4
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4th Sem. Branch: P & P Sub :Paper Making - I

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 pH of solution is _____ of logarithmic of hydrogen ion concentration.
- Negative
 - Positive
 - Addition
 - None of these
- Q.2 Consistency of pulp slurry is expressed in
- Mole fraction
 - Mass fraction
 - Percentage
 - Percentile
- Q.3 pH of white water
- 7
 - more than 7
 - Less than 7
 - None of these
- Q.4 Name of the equipment lie between distributor and slice
- Head Box
 - Couch Roll
 - Table Roll
 - Breast Roll
- Q.5 Dryness in paper web is expressed in
- Mole %
 - %
 - Weight fraction
 - None of these

- Q.6 Name types of presses
 a) Plain press b) Suction press
 c) Both of these d) None of these
- Q.7 Fillers and loading materials in paper are _____ materials
 a) Inorganic b) Organic
 c) Both of these d) None of these
- Q.8 Vacuum is suction box is
 a) 15-18 inch Hg b) 20-22 inch Hg
 c) 5-8 inch Hg d) 11-12 inch Hg
- Q.9 Unit of Deckle of paper is
 a) Meter b) Kg
 c) Newton d) Joule
- Q.10 Name of equipment use of clean stock on the basis of size
 a) Centri cleaner b) Pressure Screen
 c) Both of these d) None of these

Section-B

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

- Q.11 Calculate pulp consistency if 350 ml of pulp slurry contains 35gm oven dried pulp.
- Q.12 Name types of Headbox.

- Q.13 Define Basis weight of paper.
 Q.14 Write Functions of Dandy roll.
 Q.15 Write unit of vacuum.
 Q.16 Define Mesh Number.
 Q.17 Write functions of suction press.
 Q.18 Define two sidedness of paper.
 Q.19 Name the instrument used for measuring Basis weight of paper.
 Q.20 What is crowning?

Section-C

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

- Q.21 Describe briefly working of Plain Press.
 Q.22 Explain briefly working of Pressure screen.
 Q.23 Write short note on Nash Type pump.
 Q.24 Discuss back water system.
 Q.25 Write duties of machine tender.
 Q.26 Explain working operation of cylinder mild machine.
 Q.27 What are causes of sheet crushing.
 Q.28 A paper machine running at 725 m per minute calculate the head required in head box.
 Q.29 Explain press felt treatment.
 Q.30 Write short note on open head box.