

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 type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Write a short note on

- a) Theory and mechanism of wet web pressing operation
- b) 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 3.5 m

Q.38 Name various accessories of wire part of paper machine. Discuss each accessory in detail with diagrams

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**4th Sem / Branch : P & P**  
**Subject:- PAPER MAKING-I**

Time : 3Hrs.

M.M. : 100

### SECTION-A

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

Q.1 ph of solution is\_\_\_\_\_ of logarithmic of hydrogen ion concentration

- a) negative                      b) positive
- c) addition                    d) none of these

Q.2 Consistency of pulp slurry is expressed in

- a) mole fraction              b) mass fraction
- c) percentage                d) percentile

Q.3 ph of white water

- a) 7                                b) more than 7
- c) less than 7                d) none of these

Q.4 Name of the equipment lie between distributor and slice

- a) Head box                    b) couch roll
- c) table roll                   d) breast roll

Q.5 Dryness in paper web is expressed in

- a) Mole %                      b) %
- c) weight fraction            d) 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 Filters and loading materials in paper are \_\_\_\_\_ materials  
 a) Inorganic                      b) organic  
 c) both of these                      d) non of these
- Q.8 Vacuum in 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 used to 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 35 gm oven dried pulp
- Q.12 Name types of Headbox
- Q.13 Define basis weight of paper
- Q.14 Write function 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 questions. 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 a 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 a short note on open head box
- Q.31 Discuss type of press arrangement briefly
- Q.32 Why trimming is required on paper machine ? Explain
- Q.33 Name sheet transfer operations Discuss them briefly