

- Q.33 Calculate the head required in head box if a paper machine running at 435 m/min.

Q.34 Discuss briefly sheet transfer operation.

Q.35 Explain press felt treatment.

No. of Printed Pages : 4  
Roll No. ....

180646/120646/030654

**4th Sem.  
Branch : P & P  
Subject : Paper Making-I**

**Time : 3 Hrs.**

M.M. : 100

## **SECTION-D**

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

- Q.36 Calculate production of paper in ton per day if paper machine is running at 250 m/min producing paper of 45gsm & deckle of 3.5 m?

Q.37 Explain in detail paper machine wire changing method.

Q.38 Write short note on any two of the following

  - Modern fourdrinier paper machine
  - Theory of mechanism of wet web pressing
  - Utility of cylinder mold machine
  - Chest volume

## **Section-A**

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

- Q.1 On which principles screen is based?

  - a) Size
  - b) Shape
  - c) Density
  - d) All of the above

Q.2 What is the consistency of pulp is head box?

  - a) 0.1-1%
  - b) 2-3%
  - c) 3-4%
  - d) 4-5%

Q.3 Consistency of pulp is expressed in \_\_\_\_\_.

  - a) Mole fraction
  - b) Percentage
  - c) Mass fraction
  - d) None

Q.4 Choose the equipment lie between distributor & slice

  - a) Head Box
  - b) Table roll
  - c) Couch roll
  - d) Breast roll

Q.5 How much vacuum is kept in suction box?

  - a) 1-4 inch hg
  - b) 5-8 inch hg
  - c) 9-12 inch hg
  - d) None

- Q.6 Name of equipment used to clean stock on the basis of density.

  - a) Centric leaner
  - b) Pressure screen
  - c) Refiner
  - d) Beater

Q.7 Two sidedness in paper is caused by \_\_\_\_\_

  - a) Couch roll
  - b) Breast roll
  - c) Table roll
  - d) Suction box

Q.8 Choose the unit of speed of paper machine.

  - a) Kg/m
  - b) m/sec
  - c) M<sup>3</sup>/sec
  - d) Gram/m

Q.9 Which roll of wire part of paper machine results in water mark on paper web?

  - a) Breast roll
  - b) Couch roll
  - c) Dandy roll
  - d) Table roll

Q.10 Dryness of paper web after pressing is \_\_\_\_\_.

  - a) 15%
  - b) 25%
  - c) 35%
  - d) 45%

## **SECTION-B**

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

- Q.11 Name any one type of head box.  
Q.12 Define mesh no.  
Q.13 What is two sidedness of paper?

- Q.14 Write the name of any one accessories of wire part.

Q.15 Which chemical is recovered in chemical recovery section of pulp & Paper industry?

Q.16 Write any one type of vacuum pump.

Q.17 What is the role of presses?

Q.18 Mention any one duty of machine tender.

Q.19 Write any one press section variables.

Q.20 What is the function of guide roll?

### **SECTION-C**

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

- Q.21 Write a note on working of plain press.
  - Q.22 Classify approach flow system.
  - Q.23 Explain the term drainage on the fourdrinier machine.
  - Q.24 Briefly describe the twin wire system.
  - Q.25 What is the significance of back water system?
  - Q.26 Express the duties of machine tender.
  - Q.27 Give the uses of Nash type vacuum pump.
  - Q.28 What is crowning?
  - Q.29 Define press felt conditioning.
  - Q.30 Explain briefly working of centricleaner.
  - Q.31 Write a short note on protection of multilayer boards.
  - Q.32 What are the causes of sheet crushing?