

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain with neat diagram the working of any one twin wire former.

Q.24 Draw a flow diagram of a back water system. Explain its significance about water conservation and recovery of chemicals.

Q.25 Discuss approach flow system. Explain various types of head boxes and slices.

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Roll No. ....

**4th Sem / Chemical Engineering (Pulp & Paper)**

**Subject:- Paper Making-1**

Time : 3Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Fillers and loading material in paper are \_\_\_\_\_ materials.

- a) Inorganic                      b) Organic
- c) Both a & b                      d) None

Q.2 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.3 Name of equipment to used to clean stock on the basis of density.

- a) Centricleaner                      b) Pressure screen
- c) Both of these                      d) None

Q.4 PH of solution is \_\_\_\_\_ of logarithmic of hydrogen ion concentration.

- a) Negative                      b) Positive
- c) Addition                    d) None of these

Q.5 What is mesh no.

- a) Total no. of holes
- b) No. of holes per inch square
- c) No. of holes per inch
- d) None

Q.6 PH of white water

- a) 7                                  b) More than 7
- c) Less than 7                  d) None of these

### SECTION-B

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Why lump breaker roll is used?

Q.8 Name any one vacuum pump used in paper mill.

Q.9 Define pulp consistency.

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Q.10 What is white water?

Q.11 Why trimming is done on the paper machine?

Q.12 Name any two slices used in head box.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Describe briefly working of plain press.

Q.14 Write short note on cyclodial type vacuum pump.

Q.15 Explain centricleaners in brief.

Q.16 Explain the working of cylinder mold machine for the production of multi-layer boards.

Q.17 Write a short note on closed head box

Q.18 Explain felt conditioning in brief.

Q.19 Explain theory and mechanism of wet web pressing operation.

Q.20 Write a short note on wire changing method.

Q.21 Write a short note on floatation saveall.

Q.22 Difference between the closed head box and open head box.

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