

## **SECTION-D**

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

Q.23 Discuss construction and working principle of dissolved air floatation type fiber Recovery system

Q.24 Explain filtration and sedimentation. Name equipment used for filtration and sedimentation.

Q.25 Write short note on any two of the following :

- a) Introduction to sizing material
- b) Different types of loading materials
- c) Concentration measurement of alum

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## **5th Sem / Chemical ( Pulp & Paper)**

### **Subject : Stock Preparation - II**

Time : 3 Hrs.

M.M. : 60

## **SECTION-A**

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

Q.1 Choose the formula of cellulose

- a) CHO
- b) C<sub>3</sub>H<sub>4</sub>O<sub>10</sub>
- c) CH<sub>10</sub>O<sub>4</sub>
- d) (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)

Q.2 What is the consistency of valley beater?

- a) 1.57%
- b) 2.5%
- c) 3%
- d) 6%

Q.3 What is the brightness of clay?

- a) Meter
- b) Candela
- c) Micrometer
- d) None

Q.4 Choose test methods to check sizing of paper.

- a) Kiemen
- b) Lactic acid
- c) Cobb
- d) All of the above

Q.5 Write any one method f preparation of resin size C

- a) Hot process
- b) Cold process
- c) Both A & B
- d) None

Q.6 Expand MVT

- a) Moisture vapour time
- b) Moisture vapour temp.
- c) Both a & b
- d) None

## SECTION-C

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

Q.13 Differentiate between the ASA & AKD.

Q.14 Describe the merits of using the fillers paper making process.

Q.15 What are the optical whiteners?

Q.16 Draw a neat sketch of hydropulper.

Q.17 Explain the concept of shade matching.

Q.18 Define stock system.

Q.19 Write a short note on CMC.

Q.20 Briefly describe the substitutes for alum.

Q.21 Write a note sizing material used in paper industry.

Q.22 List various types of loading material.

## SECTION-B

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

Q.7 Name any two coloring material.

Q.8 What is the chemical formula of direct dye?

Q.9 Which color creates the maximum sensation to human eye?

Q.10 Expand ASA.

Q.11 How much OD pulp are required for valley beater?

Q.12 Why starch is used in stock preparation of paper industry?