

Note:

1. Question No. 1 is compulsory.
2. Attempt any three questions out of remaining five questions.
3. Assume suitable data wherever necessary.
4. Figures to right indicate full marks.

- Q.1 Answer the following (**Any four**)
- a. What are the advantages and disadvantages of C. F. B.? 5
 - b. Suggest a suitable type of paper for packing bakery products. Justify your answer. 5
 - c. Draw a flow sheet for paper making process. 5
 - d. Compare mechanical and chemical pulping. 5
 - e. Draw a flow sheet for magnesium based pulping and its recovery of chemicals. 5
- Q.2
- a. Discuss washing process to remove contaminants from the recovered process. 10
 - b. Design and Draw a layout of the following; 10
 - i) RTE box iii) STE with side hang tab
 - ii) Sleeve box iv) Pillow box
- Q.3
- a. What are the tree components of CFB? Explain functions of each. 10
 - b. Discuss broad classification of paper sacks. Explain briefly. 10
- Q.4
- a. Describe sulphite pulping process with its chemical recovery. 10
 - b. What are the steps involved in wood handling before pulping? Explain each step briefly. 10
- Q.5
- a. List different types of fillers used in paper making. Discuss the specific purpose of each. 10
 - b. Discuss refiner pulping and stone ground wood pulping. 10

[TURN OVER]

- Q.6 Write a note on any four
- a. Types of papers 5
 - b. Molded pulp board 5
 - c. Single face CFB manufacturing process 5
 - d. Selection of fillers 5
 - e. Vacuum drum filters for pulp washing 5
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