

B.Tech. Seventh Semester Final Year (Food, Pulp & Paper, Oil & Paint & Petro Technology) (CGS)
11068 : Special Technology - IV : Pulp & Paper Technology - IV : 7 PT 03

P. Pages : 1

Time : Three Hours



AU - 2947

Max. Marks : 80

- Notes :
1. Answer **Three** question from Section A and **Three** question from Section B.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Diagrams and chemical equations should be given wherever necessary.
 5. Illustrate your answer necessary with the help of neat sketches.
 6. Discuss the reaction, mechanism wherever necessary.
 7. Use of pen Blue/Black ink/refill only for writing book.

SECTION – A

1. Explain the term 'De Fiberization' & 'Fibrillation' used in stock preparation. How is it done in beater? **14**

OR

2. Differentiate between stuff & furnished? Explain their conversion. **14**

3. How strength properties are controlled in beating process. Explain with graphical representation. **13**

OR

4. Define freeness. How it helps in determining the time of beating? **13**

5. Explain the working of 'Dynopulper' in treatment of broke. **13**

OR

6. Describe the working of conical & disk refiner. **13**

SECTION – B

7. Discuss the importance & necessity of 'sizing' in paper. How it is carried out? Discuss their advantages & disadvantages. **14**

OR

8. Write the various stock conditions affects the sizing properties. **14**

9. List out various fillers used. How are they added in stock and retain in maximum percentage? **13**

OR

10. Discuss the role of addition of fillers on the properties of paper. How brightness improves. Describe the addition of fillers in stock. **13**

11. "Fresh water is to be treated before use in paper industry". Justify. **13**

OR

12. Explain the role of 'inclined save all' in white water treatment. **13**
