

M.Tech. First Semester (First Year) (Chemical Engineering) (CBS)
13007 : Elective - I : Pulp and Paper Technology : 1 CE 5

P. Pages : 1

Time : Three Hours



AU - 3280

Max. Marks : 80

- Notes :
1. Answer **Any Six** questions.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Diagrams and chemicals 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 the answer book.

- | | | |
|-----|---|----|
| 1. | Paper is Bio-degradable. Justify with chemical equation. | 14 |
| 2. | List out various raw materials used in commercial manufacturing of paper. | 13 |
| 3. | How raw material is converted to pulp by chemical pulping process. | 13 |
| 4. | Describe digester operation in Kraft pulping process. | 14 |
| 5. | Define 'H' factor and explain it's significance in obtaining uniform cooking yield. | 13 |
| 6. | Describe multi stage bleaching process for obtaining bright pulp | 13 |
| 7. | Explain the importance of stock preparation in the paper manufacturing process. | 13 |
| 8. | How moisture is removed in paper manufacturing process by cylinder drying process. | 13 |
| 9. | Describe chemical recovery of sulfate chemical pulping process. | 13 |
| 10. | Discuss the recycling of paper on small scale production unit. | 13 |

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