

AU – 2716

Third Year Fifth Semester B. Tech. Che. Tech. (Food, P and P, O and P and Petro.)
(CGS) Examination

SPECIAL TECHNOLOGY - II (PULP AND PAPER TECHNOLOGY)

Paper – 5 PT 04

(USC – 11034)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) Separate answer book must be used for each section in the subject Geology, Engineering material of civil branch and Separate answer book must be used for Section A and B in Pharmacy and Cosmetic Tech.
- (2) Answer **Three** questions from Section A and **Three** questions from Section B.
- (3) Due credit will be given to neatness and adequate dimensions.
- (4) Assume suitable data wherever necessary.
- (5) Diagrams and Chemical equations should be given wherever necessary.
- (6) Illustrate your answer wherever necessary with the help of neat sketches.
- (7) Discuss the reaction, mechanism wherever necessary.
- (8) Use pen of Blue/Black ink/refill only for writing the answer book.

SECTION A

1. "Wood is the source of energy but paper technologist makes it use in special way".
Justify the statement. 14

OR

2. Explain the role of cellulose in formation of paper and degradation of paper naturally. 14
3. Define procurement of raw material from various agencies. 13

OR

4. Compare various transportation methods of fiber in pulp mill. 13

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P.T.O.

5. With neat sketch explain the chipping and screening operation in pulp mill. 13

OR

6. How uniform chips are obtained ? Why is it necessary for good quality of paper? 13

SECTION B

7. With neat flow diagram explain the ground wood pulping process. What is the characteristics of ground wood pulp ? 14

OR

8. With neat diagram explain the working of various grinders used in ground wood pulping process. 14

9. Define 'H' factor. Explain in detail it's significance. 13

OR

10. Explain the working of digester in kraft pulping process. 13

11. How sodium bi-sulfite ion acts in sulfite pulping process ? Explain in detail. 13

OR

12. Write standard terms in 'Sulfite' pulping process. 13

