



B.E / B Tech (Full -Time) DEGREE END SEMESTER EXAMINATIONS -APR/MAY- 2014
PRINTING TECHNOLOGY BRANCH
SIXTH SEMESTER – (REGULATIONS 2008)

PT 9352 – PAPER AND BOARD

Time: 3 hrs

Max Marks:100

Instructions:

1. Answer all questions.
2. All questions carry equal marks.

Part – A (10 × 2 = 20 Marks)

1. What are the types of wood sources used for making paper.
2. Name the types of screening process in papermaking.
3. Name the types of head boxes in papermaking machines.
4. What are the methods used for deinking of paper before recycling?
5. How color papers are made?
6. Write the paper sizes followed with respect to printing.
7. What are the two important chemical properties of paper and its importance with respect to applications?
8. What is two sidedness of paper?
9. What is opacity of paper?
10. What is slurring and doubling as problem in printing?

Part – B (5 × 16 = 80 Marks)

- 11.) Discuss with suitable diagram how papers are manufactured using fourdrinier machines in detail.
12. (a) (i) Name the types of pulping methods in papermaking(4marks)
(ii) Discuss the types of chemical pulping methods in papermaking with suitable flow chart (12marks)
(or)
(b) (i) Discuss the process of beating and types of refining process in detail (8marks)
(ii) Explain the effect of refining process on paper properties (8marks)
- 13.(a) Explain with suitable diagram the types of bleaching process in detail.
(or)
(b) Explain with suitable diagram the types of calendaring process in detail.
- 14.(a) Discuss with suitable diagram how papers are coated (any four methods)
(or)
(b) (i) Explain how papers should be handled and stored in the press.(8marks)
(ii) Discuss the process of paper recycling in detail.(8marks)
- 15.(a) Briefly discuss the following paper properties in detail with respect to printing.
(1)Porosity and smoothness (2) pick resistance (8marks each)
(or)
(b) Discuss with suitable diagram explain the following problems during printing.
(i) web break (8marks) (ii) mis-register & curl (8marks)