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B.E. / B.Tech (Full Time) END SEMESTER EXAMINATIONS, APR / MAY 2014

PRINTING TECHNOLOGY BRANCH

FOURTH SEMESTER

PT 8403 – PAPER AND BOARD

(REGULATIONS 2012)

Time: 3hrs

Max Marks: 100

Answer ALL Questions

Part - A (10 X 2 = 20 Marks)

1. What is the use of Debarking?
2. Why cotton fibers are preferred for Paper making process?
3. Define Calendaring process?
4. What is Baby dryer?
5. Write the sizes of paper from A0 to A5.
6. What is the use of coating in Paper?
7. Define GSM.
8. Define Gloss.
9. What is blistering?
10. What is piling?

Part - B (5 X 16 = 80 Marks)

11. Explain in detail about the Mechanical and chemical pulping Process.
12. a. Explain in detail about the sections of Paper making machine.
(Or)
b. Explain in detail about the super calendaring process.
13. a. What are the types of coating Techniques? Explain any four in detail.
(Or)
b. Explain in detail about Recycling process of paper.
14. a. Explain the following paper properties. (4 X 4 = 16)
1. Smoothness 2. Caliper 3. Formation 4. Porosity
(Or)
b. (i) Explain the Tensile test of paperboard. (8)
(ii) Explain the Burst test of board. (8)
15. a. (i) Explain the Picking problem in paper. (8)
(i) Explain Slurring and Doubling. (8)
(Or)
b. (i) Explain about the poor ink drying. (8)
(ii) Explain about Curl and web break. (8)