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B.E. (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2014
PRINTING TECHNOLOGY BRANCH
IV SEMESTER – (REGULATIONS 2004/ 2008)
PT374/ 9251 Sheet Fed offset Technology

Time: 3 hours

Max. Marks: 100

Answer ALL Questions

PART A (10 X 2 = 20 marks)

1. What is Offset?
2. Write the principles of lithography.
3. How the two cylinder principle in sheet fed offset gives flexibility in printing.
4. Why the plate cylinder bevel edge should be slightly advanced than the blanket.
5. What are the steps to be taken care, While setting the roller ?
6. Give the factors affecting the print length ?
7. Justify the need for emulsification.
8. Mention the functions of a). Form rollers b). Oscillator
9. List down the steps of make ready?
10. What is spot varnishing?

PART B (5 X 16 = 80 marks)

11. What is sheet insertion system? Explain their types with a neat diagram in detail. (16)
12. a) i) Discuss the working principles of suction head with a suitable diagram. (8)
ii) Explain the working of mechanical and ultrasonic detectors used in late and Double sheet detector.(8)

(or)

b) Discuss and Compare the sheet separation & control devices used in front and back separation.
- 13 a). Discuss the two methods adopted to pack the printing couples. (16)

(or)

b) i). Explain in detail the Metal printing components in detail. (8)
ii). Explain any two methods of cylinder drives? (8)
14. a). How the blankets are manufactured and write their basic requirements along with its performance attributes.(16)

(or)

b) Discuss in detail the roller properties and explain the roller setting in detail (16)
15. a) Write short notes on various dampening methods used in offset press use neat diagram . (16)

(or)

b) Write any eight problems, causes and remedies of sheet fed offset. (16)