

B.E. (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2011
PRINTING TECHNOLOGY BRANCH
FIFTH SEMESTER
PT 9304 PRINT FINISHING
(REGULATIONS 2008)

39

Time: 3 hr

Max Mark: 100

Answer ALL Questions
Part – A (10 x 2 = 20 Mark)

1. Draw the flow chart for the manufacturing process in general.
2. What is meant by 'Eyelets'?
3. List out the materials used for the manufacture of knife used in cutting machine?
4. What are the different motions of a cutting knife?
5. What is the need for bundling and pressing aid attachments in folding machine?
6. What is known as gripper edge fold?
7. Write down the difference between loose leaf binding and mechanical binding?
8. Which is advantage in wire stitching, whether side or saddle?
9. State the purpose of endpapers used in binding?
10. What is 'tipping-in and tipping-on'?

Part – B (5 x 16 = 80 Mark)

11. (i) What is foil stamping? Discuss about the different layers of the foil with diagram (8)
 (ii) What is lamination? With neat sketches explain the types of lamination. (8)
12. (a) (i) Discuss about the materials used in binding and explain the tests to be carried to maintain quality (10)
 (ii) State the preparation and treatment of covers used for book binding (6)
 (or)
- (b) Explain the theory of adhesion? Discuss about the manufacturing procedure of different types of adhesives and state its suitability in print finishing
13. (a) (i) With neat sketches, explain the various problems that occur during cutting and also state its remedial measures. (any four) (8)
 (ii) Explain the working procedure of a Jogger and state its uses. (8)
 (or)
- (b) Define the principle of single knife guillotine machine. With neat diagram, explain the parts of a guillotine machine and discuss about clamp and knife mechanism.
14. (a) The final size of the product is 14.8 x 21 cm. Volume is 320 pages + 4 page cover. Paper (context) is 70 gsm machine finished, paper (cover) is 200 gsm pulp boards. No. of copies is 50,000, book thickness is 1.7 cm, paper stock available (context and cover) are 63 x 88, 65 x 92, 70 x 100. Find out (i) paper size and board size (ii) no. of signatures required (iii) folding scheme (iv) folding diagram (v) total ream of paper and gross of board
 (or)
- (b) What is folding? Explain with diagram, the different types of folding machine used for folding sheet and discuss their advantages and disadvantages.
15. (a) What is securing? List out the various securing operations carried out in print finishing and explain with diagram the operational procedure of thread sewing machine
 (or)
- (b) (i) Discuss on the parts of a gathering machine and with sketches briefly explain the different types of feeders used in gathering machine? (12)
 (ii) List out the points to be observed during the process of gathering. (4)