

**B.E. (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2012**  
**PRINTING TECHNOLOGY BRANCH**  
**FIFTH SEMESTER**  
**PT 9304 PRINT FINISHING**  
**(REGULATIONS 2008)**

Time: 3 hr

Max Mark: 100

Answer ALL Questions  
**PART-A (10 x 2 = 20 Marks)**

1. Define section and signature?
2. Draw the flow chart for "Planning of a product".
3. What is meant by undercut and overcut in cutting operation?
4. List out the rules to be followed during cutting operations?
5. What is the need for bundling and pressing aid attachments in folding machine?
6. How is symmetrical right angled fold different from asymmetrical right angled fold?
7. Differentiate between side and saddle stitching?
8. Write down the difference between loose leaf binding and mechanical binding?
9. List out the purpose of end papers in book binding?
10. What is known as 'Network analysis'?

**Part – B ( 5 x 16 = 80 marks)**

11. (i) Discuss about the different materials used in print finishing (8)  
(ii) Briefly explain the manufacturing procedure of the adhesives used in print finishing. (8)
12. (a) With neat diagram, explain the various components of a cutting machine and also discuss about the knife and the clamp and back gauge mechanisms.  
(or)  
(b) (i) Discuss on the need of a three knife trimmer and explain its machine design and operational procedure. (8)  
(ii) What is a Jogger? With diagram, explain its working procedure. (8)
13. (a) (i) Explain with neat diagram, the types of parallel folds used for folding printed products. (8)  
(ii) Briefly explain on the working principle of different types of folding machines used for web folding (8)  
(or)  
(b) What are the different types of folding machines used for folding sheets and explain them with neat sketches stating their advantages and disadvantages.
14. (a) (i) Discuss on the parts of a gathering machine and with sketches briefly explain the different types of feeders used in gathering machine stating its merits and demerits? (12)  
(ii) List out the points to be observed during the process of gathering. (4)  
(or)  
(b) 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.
15. (a) Write short notes on: edge staining, indexing, round cornering and perforating?  
(or)  
(b) What is foil stamping? With diagram, discuss on the different layers of the foil used in foiling and explain the factors used to control the quality of blocking in gold foiling.