

21/11/13.

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B.E / B.Tech. (Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013

PRINTING TECHNOLOGY

VII Semester

PT9403 Gravure and Screen Printing

(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

Part – A (10 x 2 = 20 Mark)

1. What are the advantages of ballard shell cylinders?
2. Write the cell types used for C,M,Y,K in electromechanical engraving.
3. List the types of trolley systems used in gravure presses.
4. What is snowflaking? How will you correct it?
5. What are the factors affecting selection of screen fabric?
6. What are the materials used for screen printing frames.
7. State the disadvantages of indirect stencil systems.
8. Which type of screen printing presses are used for textile printing? Justify.
9. What are the causes for haze in gravure printing?
10. What are the factors affecting solid ink density in gravure printing?

Part – B (5 x 16 = 80 Mark)

11. Explain in detail about the steps in preparing stencil for screen printing by capillary film method.
12. a. Explain in detail about the electromechanical engraving of gravure cylinders with diagram.
(or)
b. Describe in detail about the diffusion etch process with diagram.
13. a. What is deflection? Explain in detail about the methods to compensate impression roller deflection with neat sketches.
(or)
b. Describe in detail about any 3 types of gravure inking system with diagram.
14. a. Explain in detail about the types, their characteristics and applications of screen fabrics.
(or)
b. Write short notes on i) squeegee profiles ii) significance of fabric tension iii) Re-tensionable frames
15. a. List the variables in prepress and press that can affect the quality in gravure printing. Discuss in detail about them.
(or)
b. Explain in detail about any eight print problems in screen printing and their remedies.