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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2013

PRINTING TECHNOLOGY

VII Semester

PT 9403 Gravure and Screen Printing

(Regulation 2008)

25

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. What are the process characteristics of gravure printing?
2. Draw and label the well structure of a gravure cylinder.
3. What are the advantages of electromechanical engraving?
4. Compare between moving cylinder and moving rubber roller impression system in gravure?
5. How does tension affect quality in screen printing?
6. What are the factors involved in fabric selection?
7. What is the need for abrading and degreasing?
8. List the types of drying systems used in screen printing.
9. What are the causes for pinholes during stencil preparation in screen printing?
10. What is misting?

Part – B (5 x 16 = 80 Mark)

11. Describe in detail about the gravure cylinder preparation by diffusion etch process.
12. a. With neat diagram, explain about conventional angle doctor blade system and its loading systems.
(or)
b. Write short notes on i) Electrostatic assist impression system ii) power transmission system in gravure presses
13. a. Discuss in detail about the types, application, selection and maintenance of squeegees.
(or)
b. Explain in detail about the types of screen fabrics and their characteristics.
14. a. Explain about the steps involved in preparation of photographic direct stencils.
(or)
b. With neat sketches, explain the principle of working of the flatbed graphic screen printing presses and carousel screen printing presses
15. a. Explain the causes and remedies for any eight print problems in gravure.
(or)
b. Describe in detail about the waste disposal and environmental safeguards in gravure printing.