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

PRINTING TECHNOLOGY

IV Semester

PT 9252 Flexographic Printing

(Regulation 2008)

29/5/13
9

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

Part – A (10 x 2 = 20 Mark)

1. What is a tympan bar system?
2. How will you minimize deflection in fountain rollers?
3. What is the distortion needed in film for a 0.067" plate with a 0.004" backing sheet and a repeat length of 8"?
4. How will you standardize back exposure time?
5. What is plate staggering?
6. What is zoning?
7. What are the factors to be considered while selecting sequence of inks in print stations?
8. Write the principle of corona treatment unit.
9. Which QC target is used to detect worn-out gears? Explain.
10. Differentiate between breakdown maintenance and preventive maintenance.

Part – B (5 x 16 = 80 Mark)

11. i) Describe in detail about the types of anilox roller cell configurations and selection of anilox rollers. (8)
ii) With neat diagram, explain about common impression press with its merits and demerits. (8)
12. a. With neat diagram, explain the steps in preparation of liquid photopolymer plates. (or)
b. i) Describe in detail about the integral mask technology and inkjet mask technology of flexo CTP plates. (12)
ii) Write the advantages and disadvantages of direct imaged plates. (4)
13. a. Explain in detail about manual mounting and proofing of flexographic plates. (or)
b. ii) Explain in detail about the flexographic plate sleeves. (10)
ii) Explain in detail about the various methods used to prevent plate lifting. (6)
14. a. Explain in detail about the types of inking system with diagram. (or)
b. Explain in detail about the tension control system in flexo machine using dancer roller systems and loadcell transducers.
15. a. Explain the seven tools of statistical process control with suitable examples. (or)
b. Write the causes and remedies for
i) Poor ink adhesion ii) Bleeding iii) Blocking iv) Color variations v) Dot gain