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B.E / B Tech (Full- Time) DEGREE END SEMESTER EXAMINATIONS, April-May2014
PRINTING TECHNOLOGY BRANCH
FOURTH SEMESTER – (REGULATIONS 2004/2008)
PT 282/PT9252 – FLEXOGRAPHIC PRINTING

Time: 3 hrs

Max Marks:100

- Instructions:
1. Answer all questions.
 2. All questions carry equal marks.

Part – A (10 × 2 = 20 Marks)

1. What is the importance of cell count of anilox roll in flexo printing?
2. What is the application of design rolls by flexo printing?
3. How digital flexo plates are produced?
4. How metalized films are produced?
5. Name the four basic types of air shafts used in flexo machine.
6. What is the use of hardness tester in flexo press?
7. Write the constituents of water based inks.
8. What type of imbalance is occurring while loading the flexo plates?
9. Why cup viscometers are used to measure the viscosity of flexo inks?
10. What are the advantages of transducers over dancer roll systems?

Part – B (5 × 16 = 80 Marks)

11. Explain with suitable diagram the types of flexo presses and their suitability for different jobs.
12. (a) Explain with suitable diagram the types of ink metering systems of flexo press in detail.
(or)
(b) Briefly discuss the types of flexo plates used in flexo presses and their selection for suitable jobs.
13. (a) Explain the following mounting techniques in detail.
(i) Manual & Pin Mounting Systems (8marks)
(ii) Video Mounting Systems (8marks)
(or)
(b) Discuss the types of laminates and their properties which are used for flexo printing in detail.
14. (a) Explain in which unit the tension arises and explain how are they controlled using different tension control systems?
(or)
(b) Discuss the types of web guiding and web viewers used in flexo presses in detail.
15. (a) Explain the types of unwind systems of flexo press in detail with suitable diagram.
(or)
(b) Discuss the process used to check the wastage in the press room and maintenance of machine