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B.E / BTech (Full- Time) DEGREE END SEMESTER EXAMINATIONS NOV.-DEC.2013  
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. Write the functions of different parts of flexographic press?
2. How anilox rollers are selected for flexo printing with respect to different jobs?
3. Name the types of flexo presses and their selection for suitable printing.
4. Write the importance of flexo plate handling?
5. Write the proofing techniques used in flexo presses?
6. Write the make ready procedures of flexo plates during printing?
7. What are the types of imbalances occur while loading the plates?
8. Write the constituents of water based inks used in flexo printing?
9. What is pin mounting?
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 inking systems of flexo presses?
- 12.(a) Discuss the type of substrates used in flexo printing and write their properties in detail.  
(or)  
(b) Explain with suitable diagram how liquid photo polymers are processed?
- 13.(a) Explain the types of mounting techniques followed in flexo printing in detail.  
(or)  
(b) Discuss the types of unwind equipments used in flexo press and its operations in detail.
- 14.(a) Explain the type of surface treatment used for the polysubstrate used for flexo printing?  
(or)  
(b) Discuss the types of rewind machines used in flexo presses.
- 15.(a) Explain the techniques followed to control the wastage in flexo presses  
(or)  
(b) Discuss the procedures used to check the quality in the press room and the incoming raw materials in detail.