



B.E./B.Tech. (Full time) DEGREE END SEMESTER EXAMINATIONS, APR/MAY 2012

PRINTING TECHNOLOGY BRANCH

FOURTH SEMESTER – (REGULATIONS 2008)

**PT9252 – FLEXOGRAPHIC PRINTING**

Time : 3 hrs

Max Mark: 100

ANSWER ALL QUESTIONS

**Part – A (10 x 2 = 20 Mark)**

1. What are the characteristics of flexographic printing process?
2. Write in detail about impression cylinder for Common Impression press.
3. How will you calculate wrap distortion for flexo plates?
4. Write the causes and solution for wavy lines in photopolymer plates.
5. What is plate staggering?
6. What are the methods adapted to prevent plate lifting?
7. How will you avoid fountain roller deflection?
8. Draw any one type of corona treatment unit.
9. What are the types of lubricants?
10. State the significance of slur target and tonal patches in quality control strip.

**Part – B (5 x 16 = 80 Mark)**

11. With neat sketch, explain the types of flexographic presses.
12. a. Explain in detail about the preparation of liquid photopolymer plates with neat diagram.  
(or)  
b. Explain in detail about the types of digital plates and their preparation.
13. a. Explain in detail about manual plate mounting procedures.  
(or)  
b. Describe in detail about sleeve mounting and video mounting.
14. a. Describe in detail about the types of inking system with neat diagram.  
(or)  
b. Explain in detail about pressroom practices in a wide web flexo press.
15. a. Describe in detail about the types of maintenance and maintenance procedure for any two machine parts.  
(or)  
b. What are the tools for statistical process control? Explain in detail about any three tools.