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B.E. / B.Tech. (Full - Time) ARREAR SEMESTER EXAMINATIONS, NOV/ DEC 2011

PRINTING TECHNOLOGY BRANCH

FOURTH SEMESTER

**PT282 FLEXOGRAPHIC PRINTING**

(REGULATIONS 2004)

46

Time : 3 hrs

Max Mark:100

ANSWER ALL QUESTIONS

**Part – A (10 x 2 = 20 Mark)**

1. What is Corona treatment?
2. List down the advantages of flexographic printing.
3. Write a short note on direct imaged plates?
4. How the dryers used in flexo machine?
5. What is distortion factor? Why we need it?
6. What is plate staggering?
7. Mention basic ingredients of flexo ink.
8. Why we need cooling rollers?
9. Give the advantages of sleeves?
10. Write the need for releasing agent?

**Part – B (5 x 16 = 80 Mark)**

11. a. Write elaborately the production of CDI laser imaging technology and its significant features with clear diagram.

12. a. Explain how sheet and liquid photo polymer are prepared in detail.

or

b. Write the procedure to prepare the moulded rubber plates with neat sketch.

13. a. i) What are the significant features of proofing and explain the types of proofing machines in detail.(8)

ii) Discuss the make ready procedure for fixing the flexoplates in detail (8).

or

b. Explain the types of plate mounting processes used in flexographic printing.

14. a. With a clear diagram explain the basic units and parts of a flexographic printing machine in detail.

or

b. Write a short note on following.

i. Corona Treatment (6)    ii. Rewind equipments (4)    iii. Web Tension Control (6)

15. a.i) Explain how the wastage can be controlled in flexo press. (8)

ii) Discuss how the Quality control should be carried out in the press side and materials. (8)

or

b. Write elaborately the need and types of maintenance methods of a flexo machine.