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

PRINTING TECHNOLOGY BRANCH

FIFTH SEMESTER

PT374 SHEETFED OFFSET TECHNOLOGY

(REGULATIONS 2004)

Time : 3 hrs Max Mark:100

ANSWER ALL QUESTIONS

Part – A (10 x 2 = 20 Mark)

1. Define: Offset
2. Compare the features of single and stream feeder
3. How PLV affected by cylinder packing
4. What is perfecting?
5. Why do we need hickey picking roller?
6. Enumerate the properties of blanket.
7. What is ink/water balance?
8. Write a short note on ghosting
9. How the make-ready book is prepared?
10. Where the spot varnishing unit can be fixed in inline jobs?

Part – B (5 x 16 = 80 Mark)

11. a. Explain any eight printing problems , their causes along with the remedies in detail

12. a. Discus the significant features and working of sheet insertion system in detail with diagram

or

b. i) Explain the sheet feeding and control device in detail . (10)

ii) Write briefly the working principle of side lays. (6)

13 a. Derive the packing calculation of printing cylinders for both equal and true rolling principle.

or

b. Explain the following.

i). Convertible press (4) ii. Anti set-off spray device (8) iii. Delivery unit (4)

14. a. How the blankets are manufactured and explain their types and performance in detail?

or

b. Write a short note on following.

i). Form Roller setting (6) **ii.** Roller types (6) **iii.** Hysteresis of blanket (4)

15. a. Compare and study the design aspects of conventional dampening system with any one of the non conventional dampener.

or

b. With a clear diagram explain the importance of roller design in controlling the ink transfer to the substrate.