

B.E. (Full Time) DEGREE END SEMESTER EXAMINATIONS, Apr. 2012

PRINTING TECHNOLOGY BRANCH

V SEMESTER - (REGULATIONS 2004)

**PT 374 Sheetfed Offset Technology**

Time: 3 hr

Max. Mark: 100

Answer ALL Questions

**Part – A (10 x 2 = 20 Mark)**

1. What type of suction cups will you suggest for thick and thin stock?
2. How to preserve an offset plate for future use.
3. Name any 3 sheet fed offset machinery manufacturers engaged in making convertible presses.
4. Why a tripping mechanism in offset machine is provided?
5. Why the plate and blanket cylinders are packed?
6. What squeeze pressure is recommended for quality printing? Why it is not referred in terms of regular pressure units?
7. Define R.H. How much should it be for a press room?
8. Define tail end hook.
9. Derive an expression for dot area.
10. Derive an expression for print contrast.

**Part -B(5x16=80 Mark)**

11. Write in detail about the configuration of an offset printing machine with a description on each of its component parts. How will you determine the leading edge of the plate and blanket cylinders of a machine that is kept idle?

12. a. Explain the principle of obtaining two colour and perfection of printed sheets in a convertible press.

Or

b. Write about different types of sheet transfer systems adopted and their characteristic features.

13. a. Write in detail about various types of sheet insertion systems.

Or

b. Enumerate the requirements of sheet delivery and various methods adopted to achieve them.

14. a. Explain the mechanism of a sheet feeder in detail.

Or

b. Explain the method of preparing a stack of sheet for trouble free printing and pre make-ready procedures.

15. a. Explain how the image length could be varied to get proper register in a sheet fed press.

Or

b. Write a note on: a. Ink agitator, 2.R.C.I., 3.Static eliminators. 4. Types of blankets.