

4/9/13

ANNA UNIVERSITY CHENNAI 600 025 Roll No \_\_\_\_\_  
B.E. Degree Examination, ( Full Time) R 2004 / 2008  
PRINTING TECHNOLOGY

IV Semester

PT 374 / PT9251 Sheetfed Offset Technology

Total Time : 3 Hours

Max. Marks : 100

**PART A**

(10 X 2 = 20 marks)

Answer **ALL** Questions

All questions carry equal marks

1. How are Sheetfed offset presses classified?
2. Explain what do you mean by "Emulsification" ?.
3. Briefly explain "Fluid behavior in a nip"?
4. Why are "front lays" used in a sheetfed offset machine?
5. What is the purpose of side lays in a sheetfed offset machine ?
6. Define "Makeready" in a sheetfed offset press
7. What is the use of an anti setoff spray device?
8. What are the factors influencing the choice of grain direction of paper in a sheetfed offset machine?
9. Why is an automatic blanket wash system used in a sheetfed offset machine?
10. What are the advantages of using Alcohol Dampening systems?

**PART B**

(5 X 16 = 80 marks)

Answer **ALL** Questions

All questions carry equal marks

11. Describe in detail with diagrams the various feeder mechanisms used in a sheetfed offset machine.

12. (a) Explain in detail the various Makeready operations in a sheetfed Offset machine

(OR)

(b) Describe in detail with appropriate diagrams the way in which press performance testing can be carried out in a sheetfed offset machine.

13 (a) Explain in detail with sketches the various inking systems in a sheetfed offset machine.

(OR)

(b) Explain in detail with diagrams the various dampening systems in a sheetfed offset machine.

14 (a) Explain in detail about the various blankets used in sheetfed offset machines.

(OR)

(b) What are the factors involved in multi colour printing using a sheetfed offset machine

15 (a) Explain in detail about the digital presses using appropriate diagrams..

(OR)

(b) Write short notes on

- (i) Pressure setting and packing in a sheetfed offset machine (8)
- (ii) Spot varnishing coating and numbering (8)