

8/11/13.

ANNA UNIVERSITY CHENNAI 600 025 Roll No _____

B.E. Degree Examination

PRINTING TECHNOLOGY (Full Time)

PT 284 Film Assembly and Platemaking / PT 9254 Offset Platemaking Semester 4

Max. Marks : 100

Total Time : 3 Hours

PART A

(10 X 2 = 20 marks)

Answer ALL Questions

All questions carry equal marks

1. Briefly explain the importance of Film Assembly?
2. What do you mean by "Graining" in platemaking?
3. Briefly explain "Half Sheet work".
4. What do you mean by Contact angle in platemaking?
5. Why is gum applied on a plate before storage?
6. Draw the imposition scheme for a typical sheet work, work and turn job.
7. What is a star target used for?
8. What do you mean by "Waterless plates"?
9. Explain Plate clamp allowance with a diagram.
10. Draw a machine diagram indicating the need for paper gripper allowance..

PART B

(5 X 16 = 80 marks)

Answer ALL Questions

All questions carry equal marks

- 11.. Given the following specifications of a job: (16)

Final folded and trimmed size	: 205mmx275mm
Format	: Portrait- Side opening, Saddle stitching
Number of pages	: 300 (inner)
	: 4 (Wrapper)
Spine Thickness	: 5mm
Number of colors	: 4 (inner) in all pages
	: 4 (Wrapper) in all pages
Paper	: 100GSM art paper (inner)
	: 300GSM art board (wrapper)
Machine Size	: Double Demy
Gripper Allowance	: 5mm
Quantity of Books required	: 2,00,000

Calculate the ideal paper size, Draw the Layouts, and Indicate the imposition scheme and the Number of plates required for the above job.

12. (a) Explain in detail with diagram the various aspects of CTP Plate making systems.

(OR)

- (b) Describe in detail with suitable sketches negative and positive film assembly.

13 (a) Explain in detail with diagrams the working of the different equipments used in a platemaking department

(OR)

(b) Explain in detail with diagrams the types of Plate processors..

14 (a) Discuss in detail the various aspects of quality control in offset platemaking

(OR)

(b) Describe in detail with diagrams the working of Pre Sensitised plates..

15 (a) Explain in detail with sketches the floor plans of a typical layout planning and platemaking department.

(OR)

(b) Write short notes on

- (i)** Dichromated colloids, diazo and photopolymer compounds **(6)**
- (ii)** Burnout masks and pin register systems **(6)**
- (iii)** Plate handling and storage **(4)**