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

PRINTING TECHNOLOGY BRANCH

FOURTH SEMESTER

45

**PT9254 OFFSET PLATE MAKING**

(REGULATIONS 2008)

Time : 3 hrs

Max Mark:100

ANSWER ALL QUESTIONS

**Part – A (10 x 2 = 20 Mark)**

1. What is imposition?
2. Write any one type of book margin calculation.
3. Define – work and turn
4. How the Pin register system is used?
5. What is Anodisation? Why we need it?
6. Compare the wet-ability and contact angle?
7. Mention basic features of multipurpose plates.
8. Why we need digital plate control wedge?
9. Give the importance of quality control?
10. Where the Bruner control system used?

**Part – B (5 x 16 = 80 Mark)**

11. a. Write elaborately the importance and usage of different quality control aids in the offset plates.
12. a. Explain what are the various equipments used in plate-making department with the schematic diagram.

or

b. Draw a neat layout for plate-making department and write the facility along with tools requirement in detail.

13. a. i) What are the significant features of Burnout mask and explain its types in detail. (10)  
ii) Write the process of preparing direct ruling plate and metal keys. (6)

or

b. Write a short note on following.

- i. Conventional Positive assembly (4)
- ii. Peelable membrane (6)
- iii. Negative assembly with plastic interleave (6)

14. a. With a clear diagram explain the basic units and process of Automatic plate processing machine in detail.

or

b. Write a short note on following.

- i. Poly master (6)
- ii. Diazo material (4)
- iii. Plate exposing unit (6)

15. a. i) Explain how the Reflex plates are prepared. (8)

- ii) Discuss elaborately the workflow of computer to plate. (8)

or

b. Write elaborately how the C-t- P plate-making systems are working using a neat diagram.