



B.E. / B. Tech. (Full time) DEGREE ARREAR EXAMINATIONS, NOV/DEC 2011

PRINTING TECHNOLOGY BRANCH

FOURTH SEMESTER

PT284 – FILM ASSEMBLY AND PLATE MAKING

(REGULATIONS 2004)

30

Time: 3 hrs

Max Mark: 100

ANSWER ALL QUESTIONS

Part – A (10 x 2 = 20 Mark)

1. Justify the need for layout?
2. Enumerate the steps involved in preparing 3 by 5 method of book margin calculation?
3. What is burnout mask?
4. Give the ideal characteristics of metal keys.
5. Write a short note on asphaltum used in plate preparation?
6. List down the various types of plates?
7. Why you need UGRA plate control wedge?
8. How the dot gain scale is used?
9. What do you mean by diffusion transfer plates?
10. How will you standardize the plate exposure time?

Part – B (5 x 16 = 80 Mark)

11. Write the significant tools and equipments used in plate making department.(at least 4 in each)
12. a).i. Discuss the importance of golden rod sheet and also explain the procedure of preparing the layout.(8)
ii. Explain the preparation of peelable membrane in negative working layout (8)
(or)
b) Write the types of Step and repeat machines? Discuss any one in detail
13. a). Discuss and explain the various steps in producing Deep etch plates.
(or)
b) Write short note on following: (4 x 4 =16)
i. Automatic plate processor ii. Printing down frame iii. Graining iv. Xenon light
14. a). Explain following.
i. Reflex plates (6 marks) ii. Electrostatic plates (5 Marks) iii. Waterless plates (5 Marks)
(or)
b). What is CTP. Explain the preparation and processing of any one CTP plates?
15. a).i. Discuss the importance of quality control aids along with working of dot meter.(8)
ii. Explain the working principle of plate densitometer (8)
(or)
b). Write the necessary quality control aids that are used in a offset platemaking.