

B.E. (Full -Time) DEGREE END SEMESTER EXAMINATION, APRIL / MAY 2012**PRINTING TECHNOLOGY BRANCH
VI SEMESTER – (REGULATIONS 2004)****PT 385 – DIGITAL PRINTING TECHNOLOGY****Duration: 3 hours****Max. Marks: 100**

Answer ALL Questions

PART A

(10 X 2 = 20 marks)

1. What you mean by digitization of an image?
2. Explain the principle of any one of the light sensor used in scanners.
3. Define 3 C's in Colour Management System.
4. List different technologies used in inkjet printing.
5. What do you understood by virtual drum?
6. What is meant by electronic stripping?
7. Explain briefly FM screening.
8. Give advantages of CTP over conventional plate making.
9. List the differences between vector and bitmapped graphics.
10. List the advantages of digital printing.

PART B

(5 X 16 = 80 marks)

11. Discuss why proofing is needed in printing? Explain any one of the proofing system.
12. (a) What are the basic elements of a scanner? Explain flatbed scanner with a neat diagram.
(or)
(b) What are the types of colour model? Explain any two of them.
13. (a) What are the different types of imagesetters? With a neat diagram explain the internal imagesetter and mention its advantages.
(or)
(b) What is meant by pre-flighting? Explain in detail. What is meant by trapping and explain how to avoid them?
14. (a) What is RIP? Discuss the factors that a RIP depends and explain the function of it.
(or)
(b) Explain flatbed platesetter with a neat diagram and explain its merits and demerits.
15. (a) What are the different digital printing presses and explain one of them in detail with diagrams?
(or)
(b) Write short notes on:
(i). Compression techniques (ii). PDF (iii). XML (iv). Resolution