

B.E. (Full-Time) DEGREE END SEMESTER EXAMINATION, NOV / DEC 2011
PRINTING TECHNOLOGY BRANCH
VI SEMESTER – (REGULATIONS 2004)

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PT385 – 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. Explain FM screening.
6. What do you understand by virtual drum?
7. What is meant by electronics stripping?
8. Give advantages of CTP over conventional plate making.
9. Explain briefly about file servers.
10. List the advantages of digital printing.

PART B

(5 X 16 = 80 marks)

11. Discuss why proofing is needed in printing? With a neat sketch explain Dye diffusion Thermal transfer proofing system.
12. (a) What are the basic elements of a scanner? Explain a scanner with a neat diagram.

(or)

(b) Explain the procedure for the calibration of scanner and monitor.
13. (a) Explain the internal drum imagesetter with diagram and mention its advantages and disadvantages.

(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