

6/11/12

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**B.E / B.Tech(FullTime) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2013**

**PRINTING TECHNOLOGY BRANCH  
SIXTH SEMESTER**

**PT 385 DIGITAL PRINTING TECHNOLOGY**

(Regulation 2004)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

**PART-A (10 x 2 = 20 Marks)**

1. | What are the basic characteristics of a scanner?
2. | Define: Resolution.
3. | What do you mean by JDF?
4. | Write down the need for archiving.
5. | Enumerate the features of CIE color systems
6. | What do you mean by gamut mapping?
7. | List down the pros and cons of capstan image setter.
8. | Justify the need of RIP.
9. | How the digital presses are suitable for POD?
10. | Write the importance of lasers?

**Part – B ( 5 x 16 = 80 marks)**

11. Describe the types, principles and techniques of direct imaging in detail.
12. a) Explain the working principle of digital camera in detail.

OR

- b) Discuss characteristics requirements of various types of scanners in detail.
13. a) Describe the various steps of digital workflow in detail

OR

- b) Explain the following.
  - i) PDF (8)
  - ii) File servers (8)

14. a) Write elaborately the working of inkjet printers.

OR

- b) Compare and explain the salient features of color models in detail.

15. a) Explain the following.

- i) Screening technologies (8)
- ii) Light sources (8)

OR

- b) Explain the different techniques and types of plate setter elaborately.