



III SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)

END SEMESTER MAKE-UP EXAMINATIONS, DEC/JAN 2016-17

SUBJECT: IMAGING TECHNIQUES [PMT 2102]

REVISED CREDIT SYSTEM
(30/12/2016)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

- 1A. What do you understand by Prepress? How is prepress department important to a printing press?
- 1B. Explain the working of a Horizontal Camera with a neat diagram and mark the parts?
- 1C. What do you mean by image carriers? Explain the image carriers used for different printing processes with appropriate schematic diagrams.

[02 + 04 + 04]

- 2A. What is half tone dot referring to? Explain various types of dots in a print. What is screen angle? Explain its importance with an example.
- 2B. What do you understand by copy? Explain different types of copy. List various steps in the preparation of a copy.
- 2C. What do you understand by contact screens? Name and explain various types of contact screens.

[03 + 04 + 03]

- 3A. What is CTF? Explain its working with a neat diagram. What are the various types of CTF systems? Brief each. List its advantages over conventional exposing systems.
- 3B. What is BDR? Explain the procedure to decide BDR.
- 3C. Why is it required to maintain the strength of chemicals in an automatic processor? How is the developer strength maintained automatically? Explain.

[04 + 02 + 04]

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- 4A.** Explain with neat diagram, the process of gravure cylinder making using electromechanical engraving.
- 4B.** What is imposition? What are the advantages of proper imposition? List and brief the various types of impositions schemes used in the industry. Explain 8 page imposition with neat diagram.
- 4C.** With a neat diagram explain the working of a plate processor. What are the advantages of automatic processing over manual processing? Explain dwell time.

[02 + 04 + 04]

- 5A.** What are surface and subsurface plates? Name various configurations. What are their advantages?
- 5B.** With neat diagrams, explain the stages of sheet and liquid photo polymer flexographic plate preparation.
- 5C.** What is the importance of screen mesh in screen printing? List the various types of screen materials used in screen printing. What are advantages of multifilament over monofilament screens?

[03 + 04 + 03]