


III SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)
END SEMESTER EXAMINATIONS, NOV/DEC 2016
SUBJECT: IMAGING TECHNIQUES [PMT 2102]
**REVISED CREDIT SYSTEM
(28/11/2016)**

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 Planographic printing? How is it differ from Recess printing? Explain with diagram.
- 1B.** Explain the working of Vertical Camera with neat diagram and mark the parts.
- 1C.** Differentiate between relief and recess printing process with neat diagrams. What are the advantages of each?

[02 + 04 + 04]

- 2A.** What is half tone image and continuous tone image? Explain.
- 2B.** What is a positive and a negative? How does a positive and a negative plate differ in processing techniques?
- 2C.** Draw and explain the cross section of an unexposed photographic film. Name and brief the types of films used for reproduction. What is the need of safe light in the camera room?

[02 + 03 + 05]

- 3A.** What do you understand by CtP? Explain the working principle of external drum CtP with a neat diagram.
- 3B.** What is continuous reaction? Explain the reasons for this reaction.
- 3C.** Explain with a neat diagram an Automatic Film Processor? What is replenishing? Why is it important?

[04 + 02 + 04]

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- 4A.** What do you understand by AM Screening? How does it differ from FM screen? Explain the merits and demerits.
- 4B.** What do you understand by page layout? Explain with a neat diagram. What is geometric center and optic center?
- 4C.** With a neat diagram explain the working of an Automatic Plate processor. What is the advantage of Plate processor over manual processing? Why is it recommended to have inline processor from the CtP?

[02 + 03 + 05]

- 5A.** What are deep etch plates? Explain the process of deep etch plate making.
- 5B.**
- i.** Explain with neat diagrams, the process of making rubber flexo plates.
 - ii.** Explain with neat diagrams, the process of making gravure cylinder preparation using chemical etching process.
- 5C.** What are the different types of mesh materials for screen printing? How is screen fixed to the frame? What are the precautions to be taken while fixing the screen on the frame? List the different types of frames and brief each.

[02 + (02+02) + 04]