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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



III SEMESTER B.TECH (PRINT AND MEDIA TECHNOLOGY)

END SEMESTER EXAMINATIONS, NOV/DEC 2015

SUBJECT: IMAGING TECHNIQUES [PMT 2102]

REVISED CREDIT SYSTEM

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Draw neat diagram wherever required

- 1A. What do you understand by FM and AM screening? What are the advantages of Stochastic Screening? Explain with suitable example. **4**
- 1B. What is the standard output of a CtP processed plate? What is the technique used by printers to improvise the output of a processed plate? **3**
- 1C. List the factors that caused the decline of Gravure printing? What are the advantages of Flexographic printing? **3**
- 2A. What do you understand by imposition? Which department of a printing press does imposition? List the consequences of wrong imposition. **3**
- 2B. Explain Moire pattern? What is the cause for moire pattern? What happens to the print if Moire pattern occurs? List the methods to prevent Moire pattern? **2**
- 2C. With neat sketches, explain the principle involved in preparing the image carriers for conventional printing processes. **5**
- 3A. What do you understand by stencil? How are direct stencils prepared for screen printing process? Explain the stages with neat diagrams. **4**
- 3B. What do you understand by the term screen in offset printing? How does half tone screen differ from continuous tone? Explain briefly. **3**
- 3C. With suitable example explain the difference between High light, Middle tone and Shadow areas in a print? **3**

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- 4A.** What do you understand by Gripper edge and Tail edge of a print? How to identify them? Explain their importance with a neat diagram. **2**
- 4B.** With a neat diagram explain layout and prepare an 8 page sheet work layout. **4**
- 4C.** With a schematic diagram explain the working of External Drum Plate Exposing unit? **4**
- 5A.** With a neat diagram explain the working of a Auto Plate Processor? What do you understand by Replenishing process? **4**
- 5B.** With a neat diagram explain electroplating of a gravure cylinder? **3**
- 5C.** Name and brief any 3 screen materials? What are the advantages and disadvantages of screen printing process? **3**