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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



III SEMESTER B.TECH (PRINT AND MEDIA TECHNOLOGY)

MAKE-UP EXAMINATIONS, DEC 2015 – JAN 2016

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 are the ways to fix screen material on the frame? What is the outcome if screen tension is not maintained? Brief. 3
- 1B. Briefly explain Dark reaction and Continuous reaction? Where does it occur? List out the ways to reduce them. 3
- 1C. What is the difference between CtP Thermal and Violet plates? Explain the steps involved in the preparation of Thermal plates. 4
- 2A. What do you about Gravure cylinder? With a neat diagram explain the structure of cell and the need of cell in gravure cylinder. 4
- 2B. With neat diagram explain the difference between Single and Multi-layer flexo plates? 4
- 2C. What is Grey balance and what is the role of an offset plate in achieving it? 2
- 3A. What is Dark room? What are the factors to be considered while constructing a dark room? With neat diagram explain any 3 types. 4
- 3B. With a neat diagram explain the construction and working of a horizontal camera? 4
- 3C. What is the need of Camera? List the advantages of vertical camera over horizontal camera? 2

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- 4A.** With neat diagram explain the working of a film processor? **4**
- 4B.** How are image prepared through Electromechanical engraving techniques? **4**
What do you know of the storage of gravure cylinders?
- 4C.** What do you understand by degreasing? In which printing process it is adapted **2**
and why?
- 5A.** Explain with neat diagram the parts of a plate processor? What do you **4**
understand by replenishing?
- 5B.** Explain the process of stencil preparation through Indirect image method? **3**
- 5C.** List the features, advantages and disadvantages of different types of screen **3**
mesh materials used in screen printing process.