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**MANIPAL INSTITUTE OF TECHNOLOGY**  
**MANIPAL**  
*(A constituent unit of MAHE, Manipal)*

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

**END SEMESTER EXAMINATIONS, NOVEMBER 2018**

**SUBJECT: IMAGING TECHNIQUES [PMT 2102]**

**REVISED CREDIT SYSTEM  
 (01/12/2018)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

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

- 1A.** With diagram, illustrate the process of sheet photopolymer plate making.
- 1B.** Explain the principle and list merits and demerits of FM Screening.
- 1C.** Summarize the importance of Screen Ruling and Screen Angle.

**[04 + 03 + 03]**

- 2A.** Breakdown the process of making a Direct Emulsion Photo Stencil for Screen Printing.
- 2B.** Classify and explain the different types of originals utilized for image reproduction.
- 2C.** Define Highlight, Midtone and Shadows of halftone image and describe their features.

**[04 + 03 + 03]**

- 3A.** Illustrate a Horizontal Dark Room Camera, label its parts and explain the function of each part.
- 3B.** With diagram explain the process of Electromechanical Process of Gravure cylinder making.
- 3C.** Explain the stages involved in Wipe on plates.

**[04 + 03 + 03]**

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- 4A.** With neat diagram explain CTF Workflow and its advantages.
- 4B.** Outline the procedure for making line negative using dark room camera.
- 4C.** Explain the factors to be considered while preparing for a layout.

**[04 + 03 + 03]**

- 5A.** Relate the structure and the working principle of Dry offset plate.
- 5B.** Justify the importance of imposition and mention 6 types of it.
- 5C.** Compare the characteristics of Internal and External Drum Plate setters.

**[04 + 03 + 03]**