1A. Write a note on following: a. Soft Proof **b**. Remote Proof 1B. Explain the scanning factors that affect the image quality.

- **1C.** Explain the parameters considered for hybridization.
- **2A.** Explain the following security features with respect to their printing, design and protection against photocopying.
 - **a.** Logo-Dot **b.** Micro text Printing
 - **c.** Metameric ink pairs **d.** IR barcode printing inks
- 2B. Explain the steps involved in Raster Image Processing.
- **2C.** Explain how Color Management Architecture influences the prepress.
- 3A. Explain the role of Prefilghting.
- **3B.** Explain the factors that distinguishes digital printing process from conventional printing.
- **3C.** With neat diagrams, explain color printing systems based on lonography.

[02 + 04 + 04]

[02 + 04 + 04]

ANIPAL INSTITUTE OF TECHNOLOGY

(A constituent unit of MAHE, Manipal)

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

END SEMESTER EXAMINATIONS, NOVEMBER 2018

SUBJECT: DIGITAL AND SECURITY PRINTING [PMT 3102] **REVISED CREDIT SYSTEM**

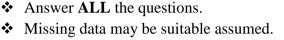
(21/11/2018)

Instructions to Candidates:

Time: 3 Hours

MAX. MARKS: 50

[02 + 04 + 04]





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- **4A.** Give the steps involved in creating Input Profile for:
 - **a.** Scanner **b.** Camera
- **4B.** With a neat flowchart, explain the possible approval points for proofing in a production cycle.
- **4C.** With a neat diagram, explain the DCP/32 electrophotographic printing system.

[02+04+04]

- **5A.** How variable data printing is an integral part of security printing process? Explain.
- **5B.** Explain the criteria for selecting the appropriate inks and coatings for any specific job in hybridization.
- **5C.** With a neat diagram, explain the working of Truepress 544.

[02+04+04]