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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

I SEMESTER M.TECH. (PRINTING AND MEDIA TECHNOLOGY)

END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: PRINT FINISHING AND CONVERTING [PME 5105]

**REVISED CREDIT SYSTEM
(29/11/2016)**

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

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

- 1A. Briefly explain the similarities and differences between embossing and stamping.
- 1B. With a neat sketch explain the principle of knife and buckle folding.
- 1C. Explain the technical considerations for PUR binding.

[03 + 03 + 04]

- 2A. Calculate the quantity of sewing thread required for the binding of 5,000 books in A5 size assuming that each book contains 15 sections and the thread contained in each reel is 500 meters.
- 2B. With a neat sketch explain Coupling variants in print finishing.
- 2C. Which factors contribute to product appearance in perfect bound books? Explain.

[02 + 04 + 04]

- 3A. With a neat sketch briefly explain the production line used for cutting.
- 3B. Briefly explain thermal and cold lamination.
- 3C. Explain the job planning and product thickness issues in mechanical binding.

[02 + 04 + 04]

- 4A. Why Creasing is done? Briefly explain the technology used.
- 4B. With a neat sketch explain the mechanism of wire stitching.
- 4C. How mechanical binding can be combined with other style to achieve hybrid finishing? Explain.

[03 + 03 + 04]

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- 5A.** When chord sewing with raised band is preferred? Which decorating technique is used for such books? Explain.
- 5B.** With a neat sketch explain the workflow of Xerox Free Flow used for digital book production.
- 5C.** Briefly explain the sources of problems related to quality control in binding.

[03 + 04 + 03]