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# Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



## I SEMESTER M.TECH (PRINTING AND MEDIA TECHNOLOGY) END SEMESTER EXAMINATIONS, NOV/DEC 2015

SUBJECT: PRINT FINISHING AND CONVERTING [PME 509]

**REVISED CREDIT SYSTEM**

Time: 3 Hours

MAX. MARKS: 50

### Instructions to Candidates:

- ❖ Answer **ANY FIVE FULL** questions.
- ❖ Missing data may be suitable assumed.

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|------------|---|----------|
| <b>1A.</b> | Briefly explain off press processing techniques like: Foil Stamping and Die-cutting.  | <b>3</b> |
| <b>1B.</b> | Give the sketch of different folding rollers.   | <b>2</b> |
| <b>1C.</b> | Why combination folding machine is used? Explain with a neat sketch of its configuration.   | <b>5</b> |
| <b>2A.</b> | How digital book production system is different from the conventional system of book production?  | <b>3</b> |
| <b>2B.</b> | With a neat sketch explain the coupling variants in print finishing.  | <b>5</b> |
| <b>2C.</b> | Give the sketch of high speed vertical die cutter.  | <b>2</b> |
| <b>3A.</b> | Why side stitching is required? Briefly explain the factors affecting its output.   | <b>3</b> |
| <b>3B.</b> | Explain Chord sewing with raised bands and give its job application.  | <b>3</b> |
| <b>3C.</b> | Briefly explain the issues related with job planning and product thickness of mechanical binding.   | <b>4</b> |
| <b>4A.</b> | Estimate the quantity of stitching wire required for making 1,50,000 answer books in a4 size. There are two wire staples in each answer book and each stitch requires 30 mm wire of 22 gauge (Length of wire per kg = 285 m). Make a provision of wastage@ 2.5 %. | <b>3</b> |

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- 4B.** Explain the flex and page pull test done for the adhesive bound books. **4**
- 4C.** Briefly explain re-moistanable glue used for book binding. **3**
- 5A.** Briefly explain the steps involved in manual process of the hard cover preparation for Hard bound books. **3**
- 5B.** How press and folding problems can be avoided due to preflight in bindery operation? Explain briefly the different points. **3**
- 5C.** Which is the advanced solution available for UV coating in print finishing? Explain its features, advantages and job application. **4**
- 6A.** “Paper is a key issue in quality control of product in Print finishing” – Justify this statement with relevant points.. **3**
- 6B.** Briefly explain the different laminating film and also explain the process of thermal lamination. **(2+2)**
- 6C.** Briefly explain the technical and operational features of Digi Photo Press used in Digital book publishing. **3**