

MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

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

END SEMESTER EXAMINATIONS, NOV 2017

SUBJECT: PRINT FINISHING AND CONVERTING [PME 5105]

REVISED CREDIT SYSTEM (21/11/2017)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ✤ Answer ALL the questions.
- Missing data may be suitable assumed.
- **1A.** What is meant by creasing? When creasing is required for print operation?
- **1B.** Briefly explain Straw Board used in print finishing.
- **1C.** With neat sketch explain knife and buckle folding mechanism.

[02+04+04]

- 2A. How many boards of 25" x 30" size will be required for making of covers of 2000 hard bound books in demmy octavo size? Consider wastage@ 2%.
- **2B.** Compare Chord sewing and Whip sewing
- 2C. 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. Add wastage of 2.5%. Length of wire per kg of 22 gauge = 285 meters

[02+04+04]

- **3A.** Briefly explain hot and cold lamination.
- **3B.** Explain the factors influencing the appearance of perfect bound books.
- **3C.** How planning is done for mechanical binding? Give the advantages of Double Loop Wire-O binding.

[02 + 04 + 04]

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- **4A.** Why preflight is required in bindery?
- **4B.** Explain the coupling variants in print finishing with a neat sketch.
- **4C.** Briefly explain the process of aqueous coating and give its advantages.

[02+04+04]

- **5A.** How planning becomes the key issue for the success of book binding?
- **5B.** Briefly explain the latest trends from pre-press to press.
- **5C.** How to solve the issue related with paper problem for obtaining a quality product?

[02+04+04]