



(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 160404**

Roll No.

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## B. Tech.

### (SEM. IV) THEORY EXAMINATION, 2014-15 PRINCIPLES OF FABRIC MANUFACTURE

Time : 3 Hours]

[Total Marks : 100

**Note :** Attempt all questions. All question carry equal marks.

1 Attempt any two parts of the following :

- (a) Why winding is necessary for weaving? What are the various requirements of winding?
- (b) Write the differences between precision and non-precision winding.
- (c) According to working principle classify the various types of tensioning devices.

2 Attempt any two parts of the following :

- (a) Write the importance of warping? Write also what warping should not do.
- (b) Write the differences between High speed warping and Sectional warping.
- (c) Explain the process of bear warping machine and how to improve beam warping process?

- 3 Attempt any two parts of the following :
- (a) Write objects of sizing. What are the technological changes of yarn due to sizing?
  - (b) Explain the working of the slasher sizing m/c with suitable sketch.
  - (c) Write the different sizing faults and state the causes of these faults.
- 4 Attempt any two parts of the following :
- (a) Discuss with neat sketch of the cross-sectional view of the loom with cam shedding mechanism and show its parts.
  - (b) Write the objects of various primary and secondary motions of loom.
  - (c) Discuss the principle of weft insertion methods.
- 5 Attempt any two parts of the following :
- (a) Find out the length of yarn in meter on package, weight in 4 kg, and yarn count is 20<sup>s</sup> English.
  - (b) Two yarns of 20<sup>s</sup> Ne and 30 Tex are piled together. What will be the resultant count in Ne.
  - (c) Convert 60 Denier yarn count into metric, English, Tex counts.
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