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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?

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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 $20^s$ English.

(b)   Two yarns of $20^s$ 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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