

**B TECH****(SEM-IV) THEORY EXAMINATION 2018-19  
PRINCIPLES OF FABRIC MANUFACTURE****Time: 3 Hours****Total Marks: 70****Note: 1. Attempt all Sections. If require any missing data; then choose suitably.****SECTION A****1. Attempt all questions in brief. Describe Briefly. 2 x 7 = 14**

- a. Textile
- b. Fiber
- c. Yarn
- d. Winding
- e. Warping
- f. Sizing
- g. Drawing-in

**SECTION B****2. Attempt any three of the following: 7 x 3 = 21**

- a. What are objectives of winding? Write down Difference between Precision and Drum winding.
- b. What are objectives of Warping? State the salient features of Direct warping & sectional warping machines.
- c. What are objectives of Sizing process? Describe with neat diagram Multi Cylinder Slasher sizing Machine.
- d. What are objectives of Drawing-in process? What are different kinds of draft used in drawing in process briefly?
- e. What are primary & secondary motions of loom? Describe briefly

**SECTION C****3. Attempt any one part of the following: 7 x 1 = 7**

- (a) Mention types of winding faults & their remedies?
- (b) Which warping machine is suitable for beam preparation of stripe effect fabric? Explain

**4. Attempt any one part of the following: 7 x 1 = 7**

- (a) What different kinds of ingredients are used during Sizing of cotton & synthetic yarns? Mention at least 2 examples of each.
- (b) With the help of a diagram, explain passage of material through power loom?

**5. Attempt any one part of the following: 7 x 1 = 7**

- (a) Explain types of warper beam defects & their remedies?
- (b) Mention classification of looms on basis of weft insertion technique? Explain any 3 in detail.

**6. Attempt any one part of the following: 7 x 1 = 7**

- (a) Find out length of yarn on a package, weight of yarn is 3 kg and yarn count is 20, S Ne.
- (b) Explain types of Size beam defects & their remedies?

**7. Attempt any one part of the following: 7 x 1 = 7**

- (a) Explain the basic flow chart of weaving process.
- (b) Calculate GSM of a fabric having following particulars:  

Warp Count : 60 <sup>s</sup> cotton	Weft Count : 52 <sup>s</sup> viscose
Ends Per Inch : 80	Picks Per Inch : 60