Reg. No. : | | | | | | | | | | | |

T 3493

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

Fourth Semester

Textile Technology

TT 1253 — FABRIC MANUFACTURE — I

(Regulation 2004)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State where the precision winding are preferred.
2. Differentiate knots and splices.
3. What is bunching?
4. Give the winding shape of a pirn.
5. What is the requirement of sectional warping?
6. What is the causes of missings ends in beam warping?
7. State the size ingredients with its purpose.
8. What are the types of drying adopted in a sizing process?
9. State the sizing faults.
10. What is drawing-in operation?

PART B — (5 × 16 = 80 marks)

11. (a) Explain with neat sketches the working of a modern automatic winding machine.

Or

(b) With the help of time vs tention diagram explain the cop-unwinding characteristics and explain the methods to minimize the variations.

12. (a) **Explain the various salient features of a modern pirn winding machine with neat diagrams.**

Or

(b) **Write short notes on :**

(i) **Pirn defects.** (5)

(ii) **Cheese winding.** (5)

(iii) **Package quality for dyeing.** (6)

13. (a) Explain the working of a modern sectional warping machine.

Or

(b) Write in detail about the creel types and the salient features of the various elements of a good creel.

14. (a) Explain the working of a multi cylinder sizing machine and give an account of space and power requirements.

Or

(b) Write short notes on :

(i) Size preparation and storage. (8)

(ii) Beam pressing devices and their selection criteria. (8)

15. (a) Discuss the various process control aspects in sizing and point out the possible sizing faults appropriately.

Or

(b) (i) Explain the requirement and working of a single end sizing machine.

(ii) Explain the working principle of a manual drawing-In.
