

**C 3415**

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

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 the types of Knotters.
2. Define precision winding and give an example.
3. What is bunching?
4. State the quality requirement of package for dyeing.
5. State the requirement of sectional warping.
6. List the beam defects.
7. State the ingredients for sizing of cotton.
8. What is marking?
9. Do we have to size synthetic yarns – Justify.
10. State the speed and efficiency of a modern sizing machine.

PART B -- (5 × 16 = 80 marks)

11. (a) What is splicing and explain the working principle of a splicer.

Or

- (b) Trace the yarn path in a cone winder and explain the various working elements.

12. (a) With a neat sketch explain the working of a pirn winder.

Or

- (b) With neat sketches, differentiate the working of a cheese and cone winder's winding drums.

13. (a) Discuss the various salient features of a modern warping machine.

Or

- (b) Write short notes on :

- (i) Breaks in beam warping (4)  
(ii) Creel types (4)  
(iii) Beam defects and remedies. (8)

14. (a) Discuss in detail the size preparation, storage and its application to warp sheets.

Or

- (b) Discuss the mechanism of

- (i) loose reed stop motion (8)  
(ii) marking and measuring motion. (8)

15. (a) State the need for drawing-in operation and explain the working principle of a drawing-in machine.

Or

- (b) Highlight the various developments taken place in sizing operations.