

H 1535

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

Sixth Semester

Textile Technology

TT 341 — TECHNOLOGY OF FABRIC MANUFACTURE — II

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention any four commercial fabrics woven in a powerloom and specify the cloth particulars for any one of them.
2. Roughly indicate the number of warp and weft breaks for a rapier loom running at 560 m/min. and producing a plain fabric of 40s C/ both warp and weft?
3. Give the classification of feelers utilised for pirn changing motion.
4. List the points to be considered while designing a shuttle.
5. What is quick style change in shuttleless looms?
6. Compare the weft insertion rates of various shuttleless looms.
7. What are loom data systems?
8. State any four precautionary measures to be taken on a plain powerloom while weaving blended yarns.
9. Mention any four end-uses of bonded fabrics.
10. Compare any two properties of bonded fabrics produced through mechanical and chemical methods.

PART B — (5 × 16 = 80 marks)

11. (i) Discuss in detail the warp and weft preparation suitable for high speed shuttleless looms. (12)
- (ii) Give the quality requirements of carded warp yarns for shuttle looms. (4)

12. (a) (i) Explain the mechanism of a three-try motion with a neat sketch. (12)
(ii) Give an account of tape looms. (4)

Or

- (b) (i) Explain the working of negative let-off motion with a neat sketch. (12)
(ii) What are temple cutters? (4)
13. (a) (i) Compare the techno-economic features of rapier, airjet, projectile and waterjet looms. (10)
(ii) Explain the types of selvages that are used in shuttleless looms. (6)

Or

- (b) (i) Explain with neat sketch the rigid rapier driving mechanism. (12)
(ii) Give a note about weft accumulators. (4)
14. (a) Explain in detail the preparation and weaving of open end yarns.

Or

- (b) Explain in detail the preparation and weaving of blended yarns.
15. (a) Explain in detail the production of bonded fabrics by mechanical method with a neat sketch.

Or

- (b) (i) List out the methods of web forming techniques for dry method of web preparation. (4)
(ii) Explain in detail the production of spun bonded fabrics. (12)