

D 133

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Second Semester

Textile Technology — (Fashion Technology)

FT 1152 — YARN MANUFACTURE

(Regulations 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Name any three natural and manmade fibres.
2. Give the relationship between English count and tex and English count and denier systems.
3. What are the operations carried out in blow-room?
4. What are the defects of blow room laps?
5. What are the objectives of carding?
6. What do you mean by heel and toe in carding?
7. Name the different drafting systems of draw frame.
8. What are the advantages of combing?
9. What are the objectives of builder mechanism in a speed frame?
10. Compare strength and evenness of ring and rotor spun yarns.

PART B — (5 × 16 = 80 marks)

11. (i) Give a detailed classification of natural and man made fibres stating their characteristic features. (8)
- (ii) Discuss in detail the various yarn numbering systems for different fibres available in trade, stating their conversions into one another. (8)

12. (a) With suitable diagrams, explain in detail the principles of opening and cleaning in blow room.

Or

- (b) With a neat sketch, explain the salient features of modern scutcher in blow room.

13. (a) With suitable neat sketches, give a detailed account on principles and mechanism of carding machine.

Or

- (b) (i) With a neat sketch, explain the chute feed system used for carding machines. (8)

- (ii) Give an account on various developments taken place for the lickertin region of the carding machine. (8)

14. (a) (i) With a neat sketch, explain a modern drafting system used in drawframes. (8)

- (ii) Discuss in detail the salient features of a modern drawframe. (8)

Or

- (b) (i) Discuss the merits and demerits of various lap preparation techniques for comber. (8)

- (ii) With neat sketches, explain the salient features of a modern comber. (8)

15. (a) (i) With a neat sketch, explain a modern drafting system used in speed frames. (8)

- (ii) Discuss in detail, the various types of rings and travellers used in ringframes. (8)

Or

- (b) With neat sketches, discuss in detail the various functions carried out in rotor spinner.