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

Second Semester

Textile Technology — (Fashion Technology)

FT 1152 — YARN MANUFACTURE

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the requirements of textile fibres?

2. Give example for natural filament fibre. How it is different from synthetic filament fibre?

3. What are the objectives of blending?

4. Write the functions of Krishner beater.

5. Mention about the Licker-in wire.

6. Justify the effect of fibre length for card setting.

7. State about the blending at draw frames.

8. Write about the roller settings on different draw frames.

9. Write the standard drafting system on modern ring frames.

10. What are the influences in rotor spinning by fibre characteristics?

PART B — (5 × 16 = 80 marks)

11. (i) Describe about the Index of Blend Irregularity (IBI).

(ii) Write the sequence of blowroom machines. Mention the principles involved on them.

12. (a) Classify the textile fibres. Discuss the similarities and differences among them.

Or

(b) Describe the different yarn numbering systems for textile fibres.

13. (a) With neat illustration, explain the important parts of a flat card.

Or

(b) With neat sketch, explain on the chute feed system for carding machienes.

14. (a) What are the different drafting systems? Describe their influences in draw frame.

Or

(b) Explain the important operations involved in Modern Comber.

15. (a) Explain the functions and behaviours of spinning rings and travellers in Ring Spinning operation.

Or

(b) Describe the principle of operation of a rotor spinner with respect to their process parameters.
