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

D 4189

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2008.

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. Convert 60^{s} (Ne) to Tex.

2. Differentiate between fibre, filament and yarn.

3. Differentiate between mixing and blending.

4. How are neps removed in carding?

5. What type of hook is formed in carded sliver? Assign reason for it.

6. How do combing improve yarn properties?

7. What is the role of autoleveller in draw frames?

8. What is the purpose of giving back draft in ring frame?

9. What is back doubling?

10. How cleaning efficiency in blowroom is characterized?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Bring out in detail the classification of fibres with suitable examples. (12)

(ii) What are the requirements of fibre forming polymers? (4)

Or

(b) Compare the various macroscopic and microscopic properties of a cotton and wool fibres. (16)

12. (a) With a neat sketch, explain the working of "Kirschner Beater".

Or

(b) Elaborate in detail how opening and cleaning takes place in "Mixing Bale Opener" (MBO).

13. (a) Explain in detail the working principle of "Modern Chute Feed System".

Or

(b) (i) What are the objectives of carding? (4)

(ii) Explain in detail how these objectives are met in carding machine. (12)

14. (a) (i) What is the purpose of doubling?

(ii) Elaborate in detail the working principle of "Super Lap Former".

Or

(b) With a neat sketch, explain the combing cycle in Modern Combing Machine.

15. (a) Write detailed notes on :

(i) Types of "Rings" and "Travellers". (8)

(ii) Cop Building Mechanism. (8)

Or

(b) Write detailed notes on :

(i) Flyer Lead and Bobbin Lead. (8)

(ii) Factors affecting the yarn quality in Rotor Spinning. (8)

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