

D 4055

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

Third Semester

Textile Technology (Fashion Technology)

FT 1202 — TEXTILE SCIENCE

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Distinguish between fibre, filament and spun yarn.
2. What is standard testing atmosphere? Why is it required?
3. Distinguish between Woollen and Worsted yarns.
4. What is retting of Jute?
5. Make a block diagram showing the important steps for the production of Nylon 6.6 filaments.
6. What is the functional contribution of polyester in P/C blend?
7. What are elastomeric fibres?
8. What are the uses of metallic fibres?
9. How will you identify natural fibres and synthetic fibres by burning test?
10. Show the microscopical appearance of cotton.

PART B — (5 × 16 = 80 marks)

11. (a) Give an account of the various properties of natural cellulosic fibres.

Or

- (b) What are the important fibre characteristics and their influence on yarn quality?

12. (a) Explain the various steps involved in the production and cultivation of wool.

Or

- (b) Give an account of the production and cultivation of cotton.

13. (a) Explain in detail the production of viscose rayon fibre.

Or

- (b) Explain the sequence of operations in the production of polyester fibres.

14. (a) Discuss in detail the production sequence of glass fibre. What are the physical and chemical properties of glass fibres?

Or

- (b) Explain the production sequence of Elastomeric fibres and their properties.

15. (a) Give the microscopical appearance of Jute, Flax, polyester and cotton fibres.

Or

- (b) Classify the textile fibres based on its origin and chemical type and give examples for each.