

D 831

B.Sc. (Applied Science) DEGREE EXAMINATION, APRIL/MAY 2003.

First Year

Apparel and Fashion Technology

FT 1.2 — TEXTILE FIBRES

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are high performance fibres?
2. Give the morphological structure of wool.
3. What is the action of Conc. H_2SO_4 on Rayon?
4. How Nylon is identified by subjecting it to burning test?
5. What are the different types of commercial cotton available and mention the area of their growth?
6. How silk is degummed and why?
7. Define Melt spinning.
8. Outline the production sequence of Acrylic filaments.
9. Give some physical properties of Lycra.
10. What are the applications of elastane fibres?

PART B — (5 × 16 = 80 marks)

11. Give a detailed account on the various categories in which textile fibres are classified. Give examples for each.

12. (a) Explain in detail, the burning characteristics of some major natural and synthetic fibres.

Or

(b) Explain the procedures carried out in identification of natural fibres by staining and chemical tests.

13. (a) Give a detailed account on the different varieties of cotton and their cultivation.

Or

(b) Discuss about the production and places of cultivation of silk and wool fibres.

14. (a) Explain the method of production of Nylon 6 filaments.

Or

(b) Give an account on the production of Acrylic fibres.

15. (a) Account on the physical and chemical properties of elastomeric fibres.

Or

(b) Explain with a neat sketch, the production sequence of Lycra.
