C 169

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

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. Give the relationship between moisture regain and moisture content.

2. What do you understand by the term Relative Humidity?

3. What is grading of cotton fibre?

4. Name few varieties of silk.

5. What are the monomers used for production of Nylon 66 fibre?

6. Name few types of Glass fibre.

7. Give the production sequence of an Inorganic fiber.

8. How will you identify that given fibre is nylon 6?

9. How will you differentiate between natural and synthetic fibre using burning test?

10. Give the chemical composition of cotton.

PART B — (5 × 16 = 80 marks)

11. (i) Elaborate in detail the various classification of fibres. (10)

(ii) Define the following :

(1) Textile fibre. (2)

(2) Spun yarn. (2)

(3) Filament. (2)

12. (a) Discuss in detail the production and cultivation of cotton.

Or

(b) Discuss in detail the process involved in the production of Jute fibre.

13. (a) Explain in detail how polyester is produced from its monomers.

Or

(b) Explain in detail how nylon 6 is produced from its monomers.

14. (a) Discus in detail the physical and chemical properties of glass fibre.

Or

(b) Explain in detail the production sequence for elastomeric fibres.

15. (a) Write short notes on :

(i) Microscope test of cotton fibre.

(ii) Burning test and their inference on identification of fibres.

Or

(b) Write short notes on :

(i) Chemical test to identify polyester, wool and silk fibre.

(ii) Feeling test and its limitations.
