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B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2008.

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. What is Moisture Regain and Moisture Content?

2. Distinguish between filament and spun yarn.

3. What is retting process in jute fibre extraction?

4. What is Dupion silk?

5. What are the physical properties of viscose rayon?

6. Distinguish between natural and synthetic fibres.

7. How do clastomeric fibres offer enormous amount of stretch?

8. List the advantages and applications of any one metallic fibre?

9. Draw the longitudinal and cross sectional view of jute fibre.

10. How will you distinguish nylon from polyester by solvent test method?

PART B — (5 × 16 = 80 marks)

11. (a) Classify the textile fibres based on origin, type and give one example for each.

Or

(b) What are the properties required for textile fibres? What is their influence on yarn quality?

12. (a) Discuss on the cultivation of mulberry silk.

Or

(b) Explain the different processes involved in the production of wool fibre suitable for yarn production.

13. (a) How will you produce polyester staple fibres? Explain with a sketch.

Or

(b) Explain in detail how Nylon 6 fibres can be produced. What are the properties of nylon 6?

14. (a) Explain the process of manufacture of Glass fibres.

Or

(b) (i) What are the requirements of fibre farming polymers? (6)

(ii) Explain how spandax yarn is produced. (10)

15. (a) Write short notes on :

(i) Moisture regain values of different fibres (8)

(ii) Microscopical view of cotton fibres. (8)

Or

(b) Discuss in detail on the identification of textile fibres by burning test and feeling test. (12 + 4)