

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

K 4305

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2009.

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. If the relative humidity is increased from 65% to 75%, what will happen to estimated count? Why?
2. Name any two bast fibres and list two important characteristics.
3. Compare natural fibers and manmade fibres.
4. What are the basic methods of spinning manmade fibres?
5. What is condensation polymerization? Give examples.
6. What are the raw materials of Polyester manufacture?
7. What is dupion silk?
8. State the production sequence of acrylic fiber with a functional block diagram.
9. List any two application of Elastomeric fibre and glass fibre.
10. State the chemical test involved in distinguishing animal fibre from vegetable fiber.

PART B — (5 × 16 = 80 marks)

11. (a) List the important physical characteristics of textile and their influence on yarn quality.

Or

- (b) Classify textile fibers according to their nature and origin in detail and explain.

12. (a) Discuss the steps involved in extracting Jute and wool fibre.

Or

(b) Explain the types of silk and their manufacture.

13. (a) With a flow chart, explain the manufacture of viscose rayon fibre.

Or

(b) Explain Nylon 6 manufacture with a neat flow diagram and list the properties.

14. (a) What are elastomeric fibres? Discuss any one elastomeric fibre production in detail.

Or

(b) Discuss the methods of altering the physical properties of manmade fibers.

15. (a) What is fiber morphology? Compare the microscopical views of any five textile fibers.

Or

(b) Explain the chemical tests for the following :

- (i) To distinguish nylon from other fibers.
 - (ii) To distinguish Polyester from other fibers.
 - (iii) To distinguish silk from wool fibers.
 - (iv) To distinguish linen from cotton.
-