

B 380

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

Fourth Semester

Fashion Technology

FA 207 — FABRIC MANUFACTURE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. In point form compare and contrast mechanical and electronic yarn clearers.
2. Name the ingredients and their % composition for a size for a 40^s Ne cotton warp.
3. List out the different types of Dobby mechanism.
4. What are the maximum number of healds that can be controlled by
 - (a) Tappets
 - (b) Dobby?
- What are the standard sizes of Jacquards available in the Indian Market?
5. Briefly differentiate between Warp knitting and Weft knitting.
6. State the production speeds of the various types of knitting machine.
7. Brief about the working of a pattern drum.
8. State the names of the different ways of forming non-woven fabrics, known to you.
9. What are the advantages of positive feed mechanisms in knitting machines?
10. Classify non-woven fabrics.

PART B — (5 × 16 = 80 marks)

11. (i) Describe some the different types of reversing mechanisms used with tappets and dobbies.
- (ii) Compare and contrast different fabric structures produced by the various types of knitting machines.

12. (a) Name the motions and components of an automatic loom and describe its working.

Or

- (b) With a neat sketch describe the working of any one type of Jacquard motion.
13. (a) Describe the loom preparatory process – from ring frame cops to the weaver's beams and pirns – for warp and weft.

Or

- (b) Compare and contrast the over pick and under pick methods of shuttle picking giving details of the actual mechanism and timing. Explain the advantages and disadvantages of each method.
14. (a) With sketches explain in detail the principles and working of the different types of needles used in knitting machines and compare and contrast their capabilities.

Or

- (b) Explain with a sketch the working of a paper dobbie and discuss the advantages of this type of dobbie over conventional and cross border dobbies.
15. (a) Describe in detail any one process for the production of a non-woven fabric and also discuss the various areas of application of non-woven fabrics.

Or

- (b) Write short notes on :
- (i) Electronic Jacquards.
 - (ii) Drop Box Motions.
 - (iii) Types of Knitting needles.
 - (iv) The Raschel Warp Knitting machine.