

E 339

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2003.

Fifth Semester

Textile Technology

TT 337 --- FABRIC STRUCTURE

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A --- (10 × 2 = 20 marks)

1. Define cover factor.
2. State the primary colors of light theory.
3. Give the design of a warprib.
4. What is irregular sateen?
5. State the types of double cloth stitches.
6. What is leno?
7. State the types of special jacquards?
8. What is half drop design concepts?
9. State the specialty of jacquards.
10. List the types of ornamentations.

PART B --- (5 × 16 = 80 marks)

11. Develop the point paper design for a double cloth using the following data :
Face weave : 1/3 twill.
Back weave : 5 end sateen
F:B ratio : Irregular
Types of stitches : self.

12. (a) Give the design, peg plan and drawing--In plan for the wadded bed ford cord fabrics and with the help of the cross sectional diagram highlight the cords formation.

Or

- (b) Discuss the various means of realising Mock-leno effects in fabrics with the suitable designs and thread diagrams.
13. (a) Discuss the weave and effect design concepts with suitable example and explain the use of this concept for the development stripe and check designs.

Or

- (b) Drive an expression for the cover factor and explain the various factors influencing the same.
14. (a) Explain the self-twill jacquard and its use for the development designs with a suitable example.

Or

- (b) Explain the working of a compound jacquard and discuss the factors which led to its development.
15. (a) Discuss the swivel system for fabric ornamentation.

Or

- (b) Explain the various steps involved in the development of jacquard patterns with a suitable example.
-