

C 3242

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Fourth Semester

Textile Technology (Fashion Technology)

FT 1253 — WOVEN FABRIC STRUCTURE AND DESIGN

(Regulation 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define peg plan and give an example.
2. What do you understand by skipped draft?
3. Differentiate the bed ford cords from rib structures.
4. Define spots and where are they used.
5. Define harmonious and contrast colors.
6. Give the application of extra warp fabrics.
7. What do you understand by fast wire pile?
8. What is face and back terry pile? Can we make both piles using a single warp terry yarn.
9. Give the classification of double cloth.
10. What are the advantages of special jacquards?

PART B — (5 × 16 = 80 marks)

11. (a) Give the design of a diamond twill weave and state the possibility of realising a variation by altering the peg plan.

Or

- (b) With the help of weave, highlight the cell structure formation in honey comb and brighton honey comb fabrics.

12. (a) Give the design and cut fabric cross-section of plain faced wadded bed ford cord fabric.

Or

- (b) Define mock-leno and explain the distorted warp thread mock-leno fabric development.
13. (a) Give the design of extra weft figuring with two colour motif. Use ground weave as plain with ground : Figure ratio 1:1. Show stitches in the design.

Or

- (b) Explain the colour and weave effect design concept with two examples.
14. (a) Give the design and cut fabric cross-section of lashed pile Corduroy fabric. How it differs from other pile fabrics?

Or

- (b) Explain the basic concept of developing terry check fabric with an example.
15. (a) Realize the double cloth weave based on the following parameters.
- Face weave 2/2 Twill
- Back weave 2/2 matt
- F : B ratio 1 : 1
- Stitch : Combination self stitch.

Or

- (b) Explain the various design concepts used in the development of a silk saree and optionally highlight the possible modifications in the use of the above concepts in the realization of the reversible silk sarees.