T 3289

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

Fourth Semester

Textile Technology (Fashion Technology)

FT 1253 — WOVEN FABRIC STRUCTURE AND DESIGN

(Regulation 2004)

Time : Three hours   Maximum : 100 marks

(Assume data suitably if required)

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What does the draft plan of a design refer?

2. Differentiate Ordinary honey comb and Brighton honey comb.

3. Write short note on wadding of Bedford cords.

4. What is Buckskin weave?

5. What are the primary colours in pigment theory?

6. Compare the extra warp figuring and extra weft figuring with respect to loom requirements.

7. What are the factors affecting the density of pile?

8. Give the loom requirements for producing terry weave.

9. What are the advantages of special jacquards?

10. Compare the double cloth with the single cloth of same thickness and cover factor.

PART B — (5 × 16 = 80 marks)

11. (a) Give the design, draft and peg plan for

(i) 3 / 3 pointed twill. (4)

(ii) 6 end irregular satin with move number 2 (4)

(iii) 12 × 12 Brighton honey comb (8)

Or

(b) (i) What are the different methods of creating crepe structure? (2)

(ii) Design the crepe weave by imposing one weave on another weave, and reversing of motif. (14)

12. (a) Give the design of a wadded Bedford cord with base twill 2/2. The base twill repeats 3 times in a cord with 2 wadding ends. Construct the draft. Find minimum number of heald shafts required to produce the above design.

Or

(b) With suitable design write short note on :

(i) Fast-back welts (8)

(ii) Mock leno – Perforated fabrics. (8)

13. (a) Discuss on :

(i) Complimentary colours. (8)

(ii) Modification of colours. (8)

Or

(b) Design an extra warp figuring structure with any motif with 2 colours. Ground weave is 2/2 twill. Ground Figure ratio is 1 : 1. Show the stitching in the design.

14. (a) Construct a plain backed velveteen structure. The pile weave is 4 end irregular sateen. Ground: Pile ratio is 1:4. Show the cut and uncut cross sectional view for two repeats.

Or

(b) (i) Design the corduroy structure. Show the cut and uncut cross sectional view for two repeats. Comment on the pile of corduroy structure. (10)

(ii) Write short note on the production of wire pile fabrics. (6)

15. (a) (i) Write short note on different stitch of double cloth. (4)

(ii) With the interlacement diagram explain the formation of self-stitched double cloth. (12)

Or

(b) Construct (i) weft wadded double cloth and (ii) warp wadded double cloth based on 4 end satin. Assume the F : B ratio, number of wadding threads and stitches suitably.

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