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B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2008.

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 the terms 'Draft' and 'Peg plan'.
2. Give the design of any one fancy mat weave.
3. What are the applications of bed-ford cords?
4. What is a backed pique fabric?
5. Define the term 'tone' in colour modification.
6. Name the various types of bindings in extra figuring.
7. What is the difference between warp-backed and weft backed fabrics?
8. What is a corduroy structure?
9. What is the difference between wadded double cloth and ordinary double cloth?
10. Outline the features of Jacquard design.

(5)

5½)

5½)

306

PART B — (5 × 16 = 80 marks)

11. (a) Give the design, draft and lifting plan of the following weaves :
- (i) Any one irregular weft rib weave. (5)
 - (ii) Waved twill weave $\frac{3}{3} \frac{1}{1}$. (5)
 - (iii) Herringbone twill weave 4/4. (6)

Or

- (b) Give a detailed account of various types of crepe weave and honeycomb weaves. (8+8)
12. (a) Give the design, draft, peg-plan and cross-section of a twill faced bed-ford cord of cutting and face ends ratio 2 : 8.

Or

- (b) Explain with example the mock-leno weave, its construction and application.
13. (a) Explain in detail about light and pigment theories of colour. (8+8)

Or

- (b) Give the design, draft and peg-plan of a sateen based extra warp figuring weave on 23 ends and 21 picks.
14. (a) Explain in detail about the construction of any one weft backed fabric with its application.

Or

- (b) Give a detailed account of various types of warp pile fabrics.
15. (a) Explain in detail about the formation and application of the centre warp and weft stitched double cloths.

Or

- (b) Explain about the construction and implementation of dobby design with an example.