C 3426

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

Sixth Semester

Textile Technology

TT 1354 — WOVEN FABRIC STRUCTURE

(Regulation 2004)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Show with example how the Rib prominence can be achieved.

2. What is transposed twill?

3. Give the application of pique structures.

4. What is spot figuring?

5. Name the primary and complimentary colours pertaining to light theory of colour.

6. Give the standard face and back order followed in fine weft backed cloths.

7. Name few warp and weft pile fabrics.

8. What is meant by weft plush?

9. Give the function of pattern wheel in ornamentations.

10. What is doup heald?

PART B — (5 × 16 = 80 marks)

11. (a) With example, explain the following types of twill weaves and give their applications

    (i)   Wavy twill   (4)

    (ii) Herringbone twill   (4)

    (iii) Broken twill and   (4)

    (iv) Elongated twill.   (4)

Or

(b) Give the design and draft for the following types of honeycomb weaves and explain the difference between them.

    (i)   Ordinary Honeycomb   (4)

    (ii)   Honeycomb with equal warp and weft floats   (4)

    (iii) Larger Honeycomb and   (4)

    (iv) Brighton Honeycomb   (4)

12. (a) Give an account of the various types of bedford cord weaves and explain their manufacturing method.

Or

(b) With example explain how the pique structures are designed and made.

13. (a) (i)   Explain the terms 'Emission' and 'Absorption' in colour theory.   (4)

       (ii) Give a detailed account of the pigment theory of colour.   (12)

Or

(b) Give the design and draft of various types of backed fabrics and explain how they are made.

14. (a) Explain the various types of Terry structures and their manufacture.

Or

(b) (i)   Give the applications of double cloth.   (4)

       (ii) Explain how the warp wadded double cloth is made.   (12)

15. (a) Give the design of cellular gauze fabric and explain its manufacturing technique.

Or

(b) Explain with neat sketch the principle and working of self – twilling Jacquard.