Reg. No. : | | | | | | | | | | | |

R 3645

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 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. Give the formula for cover factor estimation of a fabric.
2. Explain the basic rule governing the sateen weave formation.
3. Give the application of bedford cord weave.
4. What is the function of wadding thread in pique structures?
5. What is the basic difference between light and pigment theory of colour?
6. Explain the term 'chintzing' in extra weft figuring.
7. Give schematic diagrams of few terry pile structures.
8. Classify the double cloths.
9. What is Net leno structure?
10. Give the function of inverted hook in jacquard.

PART B — (5 × 16 = 80 marks)

11. (a) Give an account of plain weave and its derivatives. Also give their applications.

Or

(b) Give an account of the satin and sateen weaves and their derivatives. Give their applications.

12. (a) Classify the bedford cords. Give the design, draft, peg plan and cross-section for a plain faced bedford cord with cut and face ends ratio of 2:8 in pair of picks principle.

Or

(b) Explain with example the loose and fast back welts and piques and their applications.

13. (a) Explain in detail the light theory of colour.

Or

(b) With an example explain the intermittent figuring in extra warp.

14. (a) Explain in detail with examples the plain back and twill back velveteen structures.

Or

(b) Give a detailed account of the self stiched double cloth in terms of the various parameters governing this construction.

15. (a) Explain with a neat sketch the principle and working of cross border jacquard.

Or

(b) Write short notes on the following :

(i) Madras muslin structure (8)

(ii) Brocades. (8)