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

T 3504

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

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 design of an irregular warp rib weave.

2. Give the application of crepe weaves.

3. Name the fibre material mostly used in the manufacture of pique fabrics.

4. What is spot figuring?

5. Give any one example of colour modification.

6. Give the design of any one reversible weft backed fabric.

7. What is calico backed velveteen?

8. What is wire pile fabric?

9. What are the applications of "Leno Weaves"?

10. Write down the various types of damask weaves.

PART B — (5 × 16 = 80 marks)

11. (a) Give all possible sateen weave designs on thirteen threads. Spot out the design in which the distribution of binding marks is perfect.

Or

(b) Construct ordinary and brighton honeycomb weave designs on 16 threads. Also give the draft and peg plan.

12. (a) Give an account of various types of pique structures and their applications.

Or

(b) Give the design, draft, peg-plan and cross-section of a wadded bed-ford cord on alternate pick principle with cutting : Face : Wadded ends in the ratio of 2 : 6 :2.

13. (a) With chromatic circles explain in detail the pigment theory of colour.

Or

(b) Compare the various types of bindings applied in extra warp figuring. Explain any one extra warp figuring design and its application.

14. (a) Give a detailed account of the various types of warp pile fabrics highlighting their principle of formation and applications.

Or

(b) With example, explain the principle of construction of any one wadded double cloth and its application.

15. (a) Explain in detail the design and formation of any one cellular gauze fabric.

Or

(b) Explain in detail the principle and operation of a self twilling jacquard.
