

16234(D) - 0 DEC 2016

B. Tech 7th Semester Examination
Advance Fabric Structure and Design (NS)

TE-411(d)

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five Questions in all, selecting one question from each sections A, B, C and D. Section E is compulsory.

SECTION - A

1. Narrate the basic sheds of Leno weaving with appropriate sketches. Write the essential features of Madras Muslin cloth structure. (20)
2. Write notes on (i) Warp Rib, (ii) Weft Rib and (iii) Multi weft Brocades. (20)

SECTION - B

3. Describe Unit Repeating Design with respect to arrangement of figures. What are its features and advantages? (20)
4. In which type of loom the Tapes are manufactured? Describe the essential features of such a loom. (20)

SECTION - C

5. Name the classification of Axminster carpet system and briefly describe them. Explain the mechanism of tuft insertion in Gripper Axminster system. (20)
6. What are the special features of Pique fabrics? Describe any one type of Pique preferably with a design developed on a graph paper. (20)

SECTION - D

7. Explain the function of Self Twilling jacquard with necessary diagrams. Which type of fabrics are produced by this jacquard and why? (20)
8. What are the purposes of employing Lappet weaving? Explain Lappet weaving with appropriate diagrams. (20)

SECTION - E

9. (a) State the basic features of gauge fabrics.
(b) How the cord effect is obtained in Russian Cord structure?
(c) What are the basic principles of weaving 2-weft brocade fabric?
(d) Show with simple sketches how the figures can be arranged using (i) half drop and (ii) one third drop effects.
(e) What do you understand by 'spool setting' in Axminster system?
(f) State the basic features of a Pique structure.
(g) What are Crepe yarns? How it is different from normal yarns?
(h) Mention the arrangement of warp threads in Sectional jacquard.
(i) State the main difference between Swivel and Lappet weaving.
(j) What are main differences between narrow fabric loom and a normal broad loom? (10×2)