

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2125)

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B. Tech 7th Semester Examination
Advanced 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 one question each from Section A, B, C & D and Section E is compulsory.

SECTION - A

1. How 'Gauze and Leno' weaving is different from ordinary weaving? What are Bottom and Top Douping? Explain with neat sketches. (20)
2. What are Brocades? Where the Brocade Structures are used? Explain the structures of Two Weft and Three Weft Brocades. (20)

SECTION - B

3. Explain the method of Half-Drop designing over the Rectangular Base with an example. What is the advantage of designing over the Rectangular Base than the Diamond or Ogee Bases? (20)
4. Write short notes on:
 - (a) Construction and properties of Ribbons.
 - (b) Applications of Tapes.
 - (c) Zip Fastener Tapes.
 - (d) Any two machineries used in Narrow fabric Production. (20)

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SECTION - C

5. What is a Tapestry Structure? Name the classification of Axminster Carpet System. Explain the mechanism of Tuft insertion in Gripper Axminster System. (20)
6. How the Figured Pique Fabrics are classified? Explain the 'Loose Back' and 'Half Fast-Back' Pique Structures with an example for each. (20)

SECTION - D

7. What is "Self Twilling Jacquard"? Elaborate the function of such jacquard and comment on its advantages. (20)
8. State the importance of Stitching Movement in Lappet Weaving. Draw and explain the Construction of the Lappet Pattern Wheel with reference to a Lappet Design. (20)

SECTION - E

9. (i) What are Crepe Yarns? How it is different from Normal Yarns.
 - (ii) State the main difference between Swivel and Lappet Weaving.
 - (iii) What is the significance of using the Sectional Jacquard?
 - (iv) Mention some applications of Tapestry Constructions.
 - (v) What are the stages of process in Spool Axminster Carpet System?
 - (vi) What is the role of Jacquard in Gripper Axminster Carpet System?
 - (vii) What are Axminster Carpets?
 - (viii) State for which ornamentation the 'Unit Repeating' principle of arrangements are suitable to use.
 - (ix) What is the Drop Device in Arrangement of Figures?
 - (x) Name the chief bases upon which the Half-Drop principle is applied. (10×2=20)