

Unit II

Roll No:

Total Pages : 03

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MANUFACTURING OF SPECIALITY FABRICS

TT-429

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. What is Damask Fabric ? Discuss manufacturing of damask fabrics on self-twill jacquards. 20
2. (a) Draw a suitable design of a twill back velveteen on a graph paper, having ground to pile ratio as 1 : 3. 5
- (b) Explain the basic principle of producing terry pile structure. 10
- (c) What is a fast pile structure ? Explain with the help of a suitable design and cross-sectional view. 5

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3. (a) What are open, crossed and plain shed ? 6
- (b) Differentiate between top douping and bottom douping system. 2
- (c) Explain the mechanism of producing open, crossed and plain shed with the aid of a flat steel doup. 12
4. (a) What do you understand by Tuck fabric ? Explain the techniques of formation Tuck fabric on the loom. 10
- (b) Discuss different methods of manufacturing 3D fabric. 10

Unit III

5. (a) Discuss the mechanism of weft insertion in needle loom. 10
- (b) Discuss in brief the different types of weft insertion technique for shuttle system narrow fabric weaving. 10
6. Discuss in brief the mechanism of carpet weaving and different carpets weaving process. 20

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Unit IV

7. (a) Classify braided fabric according to construction and discuss about each type of construction in detail. 10
- (b) Discuss the production technique of 3D braided fabric. 10
8. What is spacer fabric ? What are the different methods of manufacturing spacer fabrics ? Discuss in brief manufacturing technique of spacer fabric. 20