

Roll No.

Total No. of Page : 2

BT-5/D11 : 7777**TT-307 : Fabric Structure - I**

Time : Three Hours

Maximum Marks : 100

Note:- Attempt any five questions by selecting at least ONE from each Unit.
All questions carry equal marks.

UNIT - I

Q.1 Discuss the various applications of colour in textile industry to produces different effects on material. 20

- Q.2 a) Explain two theory of colour mixing with the help of suitable examples. 14
b) Explain the concept of colour contrast and colour brightness. 6

UNIT - II

- Q.3 a) Draw a suitable design, drafting, lifting plan and cross sections view for a basket weave. 8
b) Differentiate among fancy twill, broken twill and steep twill with suitable design. 12

- Q.4 a) Draw a suitable design, drafting, lifting plan for a hopsack weave. Show its cross section view. 8
b) What is Transposed twill? Draw a suitable design, drafting, lifting plan for Transposed twill. 8

- c) Draw a suitable design for a 5 end satin weave. 4

UNIT - III

- Q.5 a) What is double cloth? What are the different types of double cloth? Draw a suitable design, drafting lifting plan and cross section view for a reversible double fabric. 16
Discuss the beaming and drafting technique for a double cloth fabric. 4
- Q.6 a) Draw a suitable design, drafting, peg plan for two extra warps figured fabric. 4
b) Discuss the technique of producing Brighton honeycomb weaves and Huckaback weave. 10

UNIT - IV

- Q.7 a) With the help of a suitable diagram explain picking mechanism as well as selvedge formation techniques for a narrow fabric weaving in a needle loom. <http://www.kuonline.in> 15
b) What is a fast pile structure? Explain with the help of a suitable design and cross sectional view. 5
- Q.8 a) Draw a suitable design of a plain back velveteen on a graph paper, having ground to pile ratio as 1:3. 5
b) Draw a satin base and twill base velveteen. Why does sateen base is better for pile interlacing than a twill base valentine? 10
c) Distinguish between design unit and design repeat. 5