

Total number of printed pages – 4 **B. Tech**
CPTX 8305

Sixth Semester Examination – 2008

**FABRIC STRUCTURE AND DESIGN
ANALYSIS – II**

Full Marks – 70

Time : 3 Hours

*Answer Question No. 1 which is compulsory
and any **five** from the rest.*

*The figures in the right-hand margin
indicate marks.*



1. Answer all the questions in brief : 2 × 10
- (a) What do you mean by cross-weaving ?
- (b) What are the uses of different gauge and leno fabrics ?
- (c) Why sometimes wire is inserted in terry pile weaving ?

- (d) What is the scope of jacquard in producing woven fabrics ?
- (e) Why wadding threads are used in double cloth weaving ?
- (f) What is tubular cloth?
- (g) Why CAD software is used in woven fabric designing ?
- (h) What are weft plush fabrics ?
- (i) What are the end uses of warp back and weft back fabrics ?
- (j) What special effects are obtained in weft and warp pile fabrics ?
2. (a) Discuss the characteristics of terry pile fabrics. How terry pile effect can be produced in cloth during weaving ? 5
- (b) Show the design, drafting and sectional view of a five pick single faced terry pile weave. 5
3. (a) Discuss the characteristics of Gauge and Leno weaving / fabrics. 2

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- (b) Show the structural view and weaving plan (movements of healds) for any gauge fabric of your choice. 6
- (c) What is Net leno weave/fabric ? 2
4. (a) What are warp and weft back fabrics ? Show the design and sectional view of any warp back weave. 6
- (b) How cellular gauge effect can be produced in fabric ? Write down the uses of cellular gauge fabric. 4
5. (a) What are double cloth and treble cloth ? What are the common uses of these cloths ? 4
- (b) Show the design and sectional view of any tubular cloth of your choice. 6
6. (a) Why jacquard is used in weaving ? Discuss the steps to be followed for preparing a motif in graph paper and its weaving with the help of jacquard. 7

- (b) What is the relationship between repeat size of the motif and the capacity of the jacquard ? 3
7. (a) Why textile designing technique has been computerized ? Discuss the advantages of CAD over conventional graph paper system of designing. 7
- (b) Write down the important features/facilities of any standard CAD software for woven fabric designs. 3
8. Write short notes on any *four* of the followings : 2.5×4
- (i) Brocade fabrics/weaving
- (ii) Tapestry weaving
- (iii) Stitched double cloth
- (iv) Doup heald
- (v) Velveteen fabrics.