



**B.TECH DEGREE EXAMINATIONS: MAY 2015**

(Regulation 2013)

Fourth Semester

**FASHION TECHNOLOGY**

U13FTT403: Fabric Structure and Design

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. "Calico" weave is also called as
  - a) Twill weave
  - b) Honey comb weave
  - c) Plain weave
  - d) Matt weave
2. Plain weave has maximum binding points. Yes or No.
3. Distorted thread imitates \_\_\_\_\_ styles.
  - a) triangular
  - b) spider or net leno
  - c) rib
  - d) diagonal
4. Perforations are the characteristics of \_\_\_\_\_ weave
5. Dyed slivers produce \_\_\_\_\_ yarn
  - a) Mixture
  - b) Blended
  - c) Melange
  - d) Spun
6. \_\_\_\_\_ thread figuring gives high production.
7. Terry pile is also called as
  - a) Indian towel
  - b) Australian towel
  - c) Turkey towel
  - d) Malaysian towel
8. Application of velveteens are \_\_\_\_\_
9. Double cloth consists \_\_\_\_\_ no. of layers
  - a) 1
  - b) 2
  - c) 3
  - d) 4
10. \_\_\_\_\_ no. of sets of warp and weft is required for self stitched double cloth

**PART B (10 x 2 = 20 Marks)**

**(Not more than 40 words)**

11. Classify woven structures.
12. Enlist types of drafts.
13. Classify welt structures.
14. Differentiate between dobby and jacquard mechanisms.
15. Mention the different types of colour theory.
16. List out the loom equipment necessary for manufacturing extra warp fabrics.
17. Classify velveteens.
18. List the end uses of backed fabric.
19. Illustrate the principle of centre thread stitching double cloth.
20. Classify double cloths.

**PART C (5 x 14 = 70 Marks)**

**(Not more than 400 words)**

**Q.No. 21 is Compulsory**

21. a (i) Construct the design, draft and peg plan and mention the features of the following satin weaves. (7)  
A. 5 end sateen B. 8 end satin C. 4 end irregular satin
- (ii) Construct the design, draft and peg plan for the following crepe weaves (7)  
constructed by reversing a small motif with the total weave repeat size of 8 X 8

22. a) Create the design, draft, peg plan and cross section for a plain faced bed ford cord on a pair of picks. The ratio of face to cutting ends is 4:2.

**(OR)**

- b) Construct the design of a warp way distorted mock leno on a repeat of 14 X 14

23. a) Develop the following color and weave effect. Assume the necessary data.  
(a) Continuous line effect (b) Step Pattern (c) Hairlines

**(OR)**

- b) Develop an extra warp figured fabric with two colors. Assume the missing data.

24. a) (i) Compare and contrast warp backed fabric and weft backed fabric. . (7)  
(ii) Develop the design, draft and peg plan for a weft backed fabric considering that (7)  
the face weave is a 1/3 twill and the back weave is 3/1 twill. Assume that the  
ratio of face to back threads is 1 : 1.

**(OR)**

- b) (i) Elaborate on the formation of terry pile structures. (7)  
(ii) Create the design, draft, peg plan and fabric cut cross sections for the twill back (7)  
velveteen. Assume the necessary data.

25. a) Construct the design, draft, peg plan and cross section for a self stitched double  
cloth having the following particulars :  
Face weave - 4/1 twill Back weave - 1/4 twill Ratio of face to back ends - 1 : 1  
Ratio of face to back picks - 1 : 1. Use back to face stitching. .

**(OR)**

- b) Develop the design, draft, peg plan and cross section for a center warp stitched  
double cloth having the following particulars :  
Face weave - 3/1 twill Back weave - 1/3 twill. Assume the necessary data.

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