

**B.TECH. DEGREE EXAMINATIONS: APRIL / MAY 2010**

Fourth Semester

**TEXTILE TECHNOLOGY (FASHION TECHNOLOGY)**

U07FT404: Fabric Structure and Design

**Time: Three Hours**

**Maximum Marks: 100**

**Answer ALL the Questions:-**

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

- 1.:..... Determines the number of heald shafts required for producing a design.  
a) Peg plan                      b) Reed                              c) Temple                              d) Draft
2. One example for weft faced fabric is -----  
a) 3/2 weft rib                      b) 2/2 Twill                              c) 4 end sateen                              d) 4 end satin
3. .... Weave has maximum number of binding points  
a) twill                              b) satin                              c) honey comb                              d) plain
4. The design concept used in the handloom silk sarees is -----  
a) Single layer jacquard      b) Extra warp and weft      c) Double layer jacquard      d) wadded
5. Wadded yarns are not used in -----  
a) Double cloth                      b) Bed ford cord                      c) Spot figuring                      d) Quilts
6. Match the following  
a. A. Corduroy                              i) Thread exchange  
b. B. Crepe Effect                              ii) Special heald shaft  
c. C. Leno weave                              iii) Differential shrinkage yarns  
d. D. Double cloth                              iv) warp pile fabric  
a) A- i , B-iii, C-ii, D- iv      b) A-iv, B- ii, C- iii, D-i      c) A-iv, B-iii, C-i D- ii      d) A-iv, B-iii, C-ii, D-i
7. Links - Links arrangement of yarns is seen in -----  
a) Single Jersey                      b) Rib                              c) purl                              d) Interlock
8. State True or False  
Statement A: French pique is one of the interlock gaited structure.  
Statement B: Single pique is one of the Rib gaiting structures.  
a) Only statement A is true                      b) Only statement A is true  
c) Both statement A and B are true                      d) Both statement A and B are False
9. 2 x 2 interlock structure is used for  
a) Accordion Fabric                      b) Derby Fabric                      c) Swiss fabric                      d) Eight lock fabric

10. Match the following

- |                            |                     |
|----------------------------|---------------------|
| e. A. Fleece Fabric        | i) Hexagonal net    |
| f. B. Under lap            | ii) raising machine |
| g. C. Open work            | iii) Guide bar      |
| h. D. Swinging and sagging | iv) Float           |

a) A- i , B-iii, C-ii, D- iv    b) A-ii, B- iv, C- i, D- iii    c) A-iv, B-iii, C-i D- ii    d) A-iv, B-iii, C-ii, D-i

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

11. Enlist the types of Draft plans.
12. State the twill weaves derivatives.
13. Differentiate between welts & Bedford cords.
14. Differentiate between warp backed & weft backed fabrics.
15. Give the classification of double clothes.
16. State the different repeat sizes possible in jacquard designing.
17. Enlighten the special characteristics of Rib fabric.
18. Give the structure of an ottoman rib knitted fabric.
19. What are the characteristic features of a Full tricot structure?
20. List out the handling precautions of knitted fabrics with elastomeric yarn.

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

21. (a) (i) Explain the characteristics of Twill weave (4)  
(ii) Draw the design, draft & peg plan for pointed twill and Herring bone twill (10)

**(OR)**

- (b) Draw the designs for Ordinary honey comb and Brighton honey comb weaves and compare their properties.

22. (a) (i) Give the design, draft and peg plan for a twill back velveteen structure. (7)  
(ii) Give the structure of Leno weave and also mention its special characteristics. (7)

**(OR)**

- (b) With neat illustration, explain the weft backed structure and compare it with warp backed structure.

23. (a) With a neat sketch explain the method of constructing self stitched double cloth, stitching from face to back.

**(OR)**

(b) Explain the formation of a pile in 3 pick terry and also give the draft and peg plan.

24. (a) Explain the following double knit structures with suitable diagrams

- (i) Single pique                      (ii) Texi- pique                      (iii) Milano – Rib

**(OR)**

(b) Draw the three types of stitches and give their special features and point paper design.

25. (a) Give the representation, structure, and development of

- (i) Marquisette                      (ii) Full tricot                      (iii) Queens cord

**(OR)**

(b) Explain the method of production and the characteristics of following

- (i) Net fabrics                      (ii) Knitted fabrics with Elastomeric yarn

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