

B.TECH. DEGREE EXAMINATIONS: NOV/DEC 2010

Fourth Semester

TEXTILE TECHNOLOGY (FASHION TECHNOLOGY)

U07FT404: Fabric Structure and Design

Time: Three Hours

Maximum Marks: 100

Answer ALL Questions:-

PART A (10 x 1 = 10 Marks)

- 1 Denting Plan refers to
A) Size of the Repeat B) Lifting plan C) Drawing Order D) Number of Healds.
- 2 Suitable mechanism to produce Plain weave is
A) Dobby B) Jacquard C) Tappet D) Draw Box
- 3 Broken twills can be produced by
A) Rearranged twills B) Herringbone twill
C) zigzag twill D) breaking a regular twill.
- 4 Sateen weave is also known as
A) Elongated twill B) Figured Twill C) Rearranged Twill D) Curved Twill
- 5 Bed-Ford Cord weave has
A) More floats B) Sunken Lines C) Check Effect D) Raised Effect
- 6 Welts and Piques requires
A) 1 warp and 1 weft B) 2 warp and 2 weft
C) 2 warp and 1 weft D) 1 warp and 2 weft
- 7 Terry weave is also known as
A) weft pile B) weft plush C) Warp pile D) warp plush
- 8 The arrangement of loops in the knitted structure in vertical direction is called as
A) Course B) Wales C) Overlap D) Underlap
- 9 Which of the following knitted fabric structure has maximum stretch
A) Purl B) Rib C) Interlock D) Plain
- 10 When the thread in the warp knitting is lapped around the same needle _____ is produced
A) Piller stitch B) Miss stitch C) Face stitch D) Float stitch

PART B (10 × 2 = 20 Marks)

11. What are the modifications of Plain weave?
12. Write two differences between ordinary and Brighten Honeycomb.
13. For what purpose Wadded ends and picks are used in a woven fabric structure?
14. To arranging the figuring effect in a fabric what are the additional mechanisms required?
15. Mention the stitches by which the Double cloth can be produced.

16. What are velvets and velveteens?
17. Give the Point paper & Graph paper design for Tuck, Float & Knit.
18. Illustrate Needle loop & Sinker loop.
19. Give the guide bars movement of a Full Tricot Structure
20. Define the term Plaiting.

PART C (5 × 14 = 70 Marks)

21. a) Draw the Design, Draft and Pegplan of plain faced Bed-ford cord fabric and explain the structure.

(OR)

- b) What property should a Toweling fabric should have? Give a design for the same.

- 22.a) Realize a colour and weave effect (Hound tooth) pattern size on 18 ends X 18 picks.

(OR)

- b) Mention the Characteristics of crape weave? Give design, Draft and pegplan.

23. a) (i) Draw a Three pick Terry loops on one side only, ground: Pile =1:1 Explain in detail the repeat size and cross section 4X3. (7)

- (ii) Draw a Five pick Terry loops on Two sides, ground: Pile =1:1, Explain in detail the repeat size and cross section 4X5. (7)

(OR)

- b) Draw a design for a plush fabric, repeat size 6X6, Weft arrangement Two ground One wire and Warp arrangement Two ground and Two wire, pile ends raised over alternate wires.

23. a) Explain the knitting sequence of Ponte-De-Roma and Ottoman Rib Structures with suitable diagram.

(OR)

- b) Explain the knitting sequence of Ponte-De-Roma and Ottoman Rib Structures with suitable diagram.

25. a) With suitable guide bar lapping notations, discuss the following warp knit structures. (a) Full tricot (b) Locknit

(OR)

- b) Explain about the following warp knit structures with suitable diagram.

- (a) Marquisette (b) Sand-fly-net
