KUMARAGURU
college of technology
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Register Number: ……..

B.TECH DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2009)

Sixth Semester

TEXTILE TECHNOLOGY

TTX113: Fabric Structure

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. The fabric openness can be determined by ____
   a) Fabric length b) Fabric width
   c) Fabric crimp d) Cover factor
2. The peg plan for straight draft is same that of _____
   a) denting order b) mixed draft
   c) pointed d) pointed
3. In cord weaving, the prominence of the cords and strength of the fabric can be improved by introducing___
   a) twisted yarn b) Wadding threads
   c) Color yarns d) Weft threads
4. The loom equipment necessary for manufacturing pique structures are ____
   a) a dobby loom with two warp beams b) a dobby loom with one warp beams
   c) a jacquard loom with one warp beams d) a tappet loom with one warp beams
5. One of the following weave designs must require one warp beam and drop box (2 X1) motion in a loom.
   a) Warp backed fabric b) Weft backed fabric
   c) Pile fabric d) Leno fabric
6. The figured effects show more prominently in ____ type of weaving.
   a) gauze b) Warp backed
   c) Extra weft figuring d) weft backed

7. ____ fabric is a warp pile fabric with loops of warp threads alternating with ground threads.
   a) pile b) pique
   c) swivel d) terry
8. In a self stitched double cloth, the stitching can be possible by___
   a) Stitching face to back b) Stitching back to face
   c) Both (a)&(b) d) introducing extra threads
9. _____type of heald used to produce gauze and leno structure.
   a) open end b) doup
   c) metallic d) harness string
10. _____ is a heavy silk fabric with figured ornamentation using a jacquard.
   a) Swivel b) lappet
   c) brocades d) tapestry

PART B (10 x 2 = 20 Marks)

11. What are the basic elements of woven design?
12. What is pointed draft?
13. State the importance of wadded threads in cord weaving.
14. Define the term spot figuring.
15. State the importance of light theory in textile coloring.
16. Give any two reversible and non reversible fabrics.
17. How will you produce a weft plush fabric?
18. Define the term wadded double cloth.
19. List any two properties of leno structured fabrics.
20. State any two advantages of lappet designed fabrics.

PART C (5 x 14 = 70 Marks)

21. a) (i) Analyze the factors influencing fabric cover factor in a fabric construction. (6)
    (ii) Compare and contrast satin and sateen with examples (8)

(OR)

    b) Construct a weft way disordered mock leno weaves with clear representations.

22. a) Enumerate the construction of a twill faced Bed ford cord effect fabric with an example.

(OR)

b) Illustrate the design, draft, peg plan and cross section for an ordinary welt structure with a repeat size of 6 x14; assume that the stitching ends float over 4 picks.

23. a) Distinguish the factors influencing color and weave effect.

(OR)

b) Illustrate and explain the procedure for constructing a backed fabric with a design example.

24. a) Demonstrate how you will design a weft pile fabric with relevant example.

(OR)

b) Develop any one double cloth design and elaborate the stitching procedure.

25. a) Construct a damask design with weft sateen figure on a plain ground.

(OR)

b) Summarize in detail about gauze and leno fabric production.

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