KUMARAGURU college of technology
character is life

Register Number: ……..

B.TECH DEGREE EXAMINATIONS: MAY 2015

(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 largest float in brighten honey comb is given by the formula _____.
   a) 2n – 1 b) (2/n) -1
   c) n/2 d) (n/2) – 1
2. Weave used for towels are _____.
   a) Plain b) Honey comb
   c) Twill d) Mock - Leno
3. Longitudinal sunken lines are formed in _____.
   a) Plain weave b) Bed ford cords
   c) Mock – Leno fabrics d) Crepe weave
4. Using filament in warp and cotton yarn in weft produces _____ fabric.
   a) voile b) full voile
   c) half voile d) chiffon
5. Light theory deals with _____.
   a) Mixture of color lights b) Distribution of colors
   c) Modification of colors d) Inspection of colors on fabric
6. Color and weave effect produces
   a) Different weaves b) Different patterns
   c) Different colors d) Same weaves
7. Weft plush is also called as _____.
   a) corduroy b) twill
   c) terry d) lashed pile

8. Terry is _____ pile.

a) warp pile b) weft pile

c) fancy d) tufted

9. The II and IV segment in mock leno is filled up by _____.

a) mirror reflection b) twill

c) plain weave d) satin

10. _____ loom is used for producing hat.

a) lappet b) swivel

c) terry d) dobby

PART B (10 x 2 = 20 Marks)

11. Enumerate the characteristics of Mock-leno fabrics.
12. State the Principle of crepe fabric
13. What is special denting order in Bedford cord?
14. Write a brief note on sateen system of distribution.
15. State the principle of backed fabric.
16. What do you understand by colour effect?
17. Give the concept of Double cloth.
18. What are all the advantages of using twill as ground weave in velveteen?
19. Define: Tapestry.
20. List the end uses of damask fabric.

PART C (5 x 14 = 70 Marks)

21. a) Construct the design, draft and peg plan for the following:
    i) Herring bone Twill (vertical effect)
    ii) Broken Twill (horizontal effect)

(OR)

b) Draw design, draft and lifting plan of 12 end ordinary and Brighton honeycomb weave.

22. a) Explain with reasoning how wadded twill faced Bedford cord fabric can be produced. Give design, draft and cross section diagram

(OR)

b) Explain construction of a reversible warp backed cloth. Produce design and cross- section diagram relevant to your explanation.

23. a) Show the cross sectional diagram and explain the method of disposing of the surplus extra threads in figured fabric. How will you produce a figure effect by using extra weft?

(OR)

b) What are complementary colours? Explain the pigment theory of colours.

24. a) Explain construction of a double fabric by stitching from back to face. Produce face weave, back weave and stitch/tie diagram with stitched design.

(OR)

b) Explain the principle of producing terry stripe fabric. Give design and cross-section diagram for your explanation.

25. a) Illustrate two designs for ornamentation of fabrics. Discuss the swivel method of ornamentation against lappet system.

(OR)

b) Describe the applications of special jacquards with an example.

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