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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(Textile) (2011 Onwards) (Sem.-4)

FABRIC STRUCTURE AND ANALYSIS

Subject Code : BTTE-405

Paper ID : [A2754]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**1. Write briefly :**

- a. How are the woven fabrics classified?
- b. What is repeat of a weave?
- c. What is Campbell weave?
- d. Give a comparison between sateen and satin weaves.
- e. Mention the basic features of huck-a-back weaves.
- f. Calculate the percentage crimp in the fabric, that is cut at points 160mm apart and the yarn length that is subsequently removed from the fabric is 176mm.
- g. State the Principle of crepe fabric.
- h. Define Monochromatic contrast with examples.
- i. State the arrangement of warp threads in pique.
- j. Mention the various types of standard terry structures.

SECTION-B

2. Write a short note on Calico weaves.
3. Calculate the weight per sq. yd. of a fabric of width 36 inches and 100 yds. long having following particulars: epi - 75, ppi - 60, warp crimp - 5%, weft crimp - 8%, warp count - 35 Ne, weft count -30 Ne.
4. How can we choose the move number for construction of satin/sateen weaves? How does the distinctness of the diagonal lines in a twill weave fabric depend on the direction of the twist in the warp and weft yarns?
5. Give the design for a birds eye effect with the following particulars :

Weave - 2/2 twill

Order of warping - 2 dark and 2 light

Order of picking - 1 dark and 1 light
6. Construct the design and draft for Brighton honey comb with a repeat size of 20×20 .

SECTION-C

7. How can we determine the direction of warp and weft yarns? Construct design drafting and lifting plan of a diamond weave with a repeat size of 16×16 based upon 2-and -2 twill.
8. Classify double cloths with examples of each class.
9. Define the bed ford cord. Classify bed ford cords with examples