www.FirstRanker.com

www.FirstRanker.com

Roll No.						Total No. of	Pages :	02
							9	

Total No. of Questions: 09

B.Tech.(Textile Engg.) (2011 Onwards) (Sem.-4) FABRIC STRUCTURE AND ANALYSIS

Subject Code: BTTE-405 M.Code: 71648

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 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) What is the significance of fabric structure analysis?
- b) What is fabric cover factor?
- c) What is the weave used in denim fabric?
- d) Prepare a sponge weave.
- e) Mention the end uses of double fabric.
- f) Give the characteristic features of satin/ sateen weaves.
- g) Prepare diamond on minimum repeat size.
- h) Differentiate between welt and pique weaves.
- i) What is the function at fringing mechanism in terry weaving?
- j) Prepare a vertical hairline pattern.



SECTION-B

- 2. Prepare a zig zag twill weave using 2/1, 1/1 twill with its weaving plans.
- 3. Prepare brighton honeycomb structure with the cross-sectional view.
- 4. What are the various methods used to prepare stripe and check patterns?
- 5. Compare huck a back and mockleno weaves.
- 6. Design a distorted thread pattern.

SECTION-C

- 7. What are terry fabrics? Give their classification. Prepare the 'graphical representation and cross- sectional view of a three pick terry fabric.
- 8. What are characteristic features of backed fabrics? Prepare a weft backed warp wadded fabric.
- 9. A stripe fabric is woven 42.5 inches wide on a 60s American reed with 50 ppi. The selvedges are 1/4 inch wide on each side woven with 2/30s bleached yarn with 4 ends/dent. The length of the piece is 60 yards and the crimp of warp is 8%. The count of the weft 20s and the warp pattern is as follows

 30s brown
 2 ends

 26s white
 2 ends

 30s brown
 3 ends

 26s white
 3 ends

Calculate:

- a) Total number of ends in the warp
- b) Total length of each colored yarn
- c) Total weight of each colored yarn
- d) Total weight of yarn in the piece

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 M-71648 (S2)-2274