

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – SUMMER • 2014****Subject Code: 152903****Date: 19-06-2014****Subject Name: Fabric Structure - I****Time: 10.30 am - 01.00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Which type of weaves are suitable for toweling purpose.why? Give only design for each toweling weave. **07**
- (b)** Construct design, draft, peg-plan and denting of mock-leno. **07**
- Q.2 (a)** Give design and cross-section for the following: **07**
- i. Irregular hopsack on 10 x 0
 - ii. regular warp rib and weft rib.
- (b)** Construct only design for the following: **07**
- (1) Twilled hopsack (2) Modified hopsack (3) Elongated twill on 70°
- OR**
- (b)** Construct only design for the following: **07**
- (1) hopsack and rib combination (2) Elongated twill on 20°
- (3) Transposed twill
- Q.3 (a)** Construct only design and draft for each of the (i.) wavy twill with vertical pattern and (ii). herring bone twill with horizontal pattern **10**
- (b)** State similarities and difference between wavy twill and herring bone twill. **04**
- OR**
- Q.3 (a)** How 3/3 twill can be produced with prominent and subdued effect. Explain with suitable diagram. **10**
- (b)** What information is obtained from draft and peg-plan. **04**
- Q.4 (a)** With the help of design, draft, pegplan and cross-section explain how ordinary Bedford cords are constructed. What should be done to increase the prominency of the cords? **07**
- (b)** Write a brief note on Voile & crepe fabrics. **07**
- OR**
- Q.4 (a)** With the help of design, draft and peg-plan, explain how warp corkscrew weaves are constructed. **07**
- (b)** Give design, draft & peg plan for the following: **07**
- i. Crepe on 8 x 8 using reversing principle
 - ii. Crepe on 14 x 14 using sateen base
- Q.5 (a)** Write a brief note on Seersucker fabrics. **07**
- (b)** Give design, draft & peg plan for the following: **07**
- i. Horizontal Extension of 5 thread Sateen
 - ii. Diamond on 8 x 8
- OR**
- Q.5 (a)** Explain, with the help of design, how warp way distorted thread effect is obtained. **07**
- (b)** Give design, draft & peg plan for the following: **07**
- i. Irregular Sateen on 8 x 8
 - ii. Diaper on 10 x 10
