

**GUJARAT TECHNOLOGICAL UNIVERSITY****B. E. Sem. - V - Examination – June- 2011****Subject code: 152903****Subject Name: Fabric Structure-I****Date:24/06/2011****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) How 2/2 twill can be produced with prominent effect in S & Z twill direction. **07**
- (b) How is a crepe fabric characterized? Explain how superimposing of weaves can be done to obtain crepe weave. **07**
- Q.2** (a) Do as directed: **07**
- i. Construct design, draft & peg plan for weft rib on (3,4,2,2)
  - ii. Construct only design for (3&3) hopsack and Rib combination.
- (b) Explain denting of plain weave & hopsack with suitable example. **07**
- OR**
- (b) With the help of examples distinguish between diamond & diaper weave. **07**
- Q.3** (a) Explain representation of draft & pegplan on point paper. **07**
- (b) Give the possible move numbers, if a regular sateen is to be constructed on 12 x 12. Give design, draft & peg plan for regular sateen on 12 x 12. **07**
- OR**
- Q.3** (a) Construct design, draft & pegplan of wavy twill with horizontal effect taking base twill as (6/2 twill). **07**
- (b) Give design, draft & peg plan for the following: **07**
- i. Satinette
  - ii. Bucksin
- Q.4** (a) Construct only design for the following: **07**
- i. Twill on 70°
  - ii. Transposed twill
  - iii. Elongated twill on 15°
- (b) Distinguish between Simple & Compound Fabrics. **07**
- OR**
- Q.4** (a) Construct design & draft for the following: **07**
- i. Herringbone twill (vertical effect)
  - ii. Broken twill (base twill on 6 x 6, horizontal effect)
- (b) Write a brief note on Voile & crepe fabrics. **07**
- Q.5** (a) Construct design, draft & pegplan for honey comb with unequal cell formation on (10 x 10) **07**
- (b) With the help of design, explain how waved piques are constructed. **07**

**OR**

- Q.5 (a)** Do as directed: **07**
- i. State the characteristics of toweling weaves.
  - ii. Construct only design for brighton honey comb on 16x16
  - iii. Construct only design for Devon's huck.
- (b)** Give design, draft, pegplan and cross-section for wadded Bedford. **07**

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