

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. Vth Semester–Examination – Nov-Dec- 2011****Subject code: 152903****Subject Name: Fabric Structure-I****Date: 26/11/2011****Time: 02:30 pm – 05:00 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 Rib & Cord effect is produced in plain weave. Explain with suitable diagram. **07**
- (b) How is a crepe fabric characterized? Explain how reversing principle is used to obtain crepe weave. **07**
- Q.2** (a) Draw design, draft, pegplan, denting & cross section of 5 & 5 hopsack. **07**
- (b) What are toweling weaves? Draw design & draft of honey comb with equal & unequal cell formation. **07**
- OR**
- (b) With suitable designs, explain different methods of constructing diamond weave. **07**
- Q.3** (a) Construct only design for the following: **07**
- (I) Smallest brighton honeycomb (II) Twilled hopsack
- (III) Transposed twill
- (b) Give design, draft & peg plan for the following: **07**
- (I) Sateen derivative 10 x 10 (II) Regular Satin on 8 x 8
- OR**
- Q.3** (a) Do as directed: **07**
- (I) Only design for Weft way S twill (5/2, 3/2)
- (II) Stitched hopsack on 16 x 16 with its draft.
- (b) Give design, draft & peg plan for the following: **07**
- (I) Irregular sateen on 6 x 6 (II) Venetian
- Q.4** (a) State the difference between wavy twill and herringbone twill. Give one design each of wavy twill & herringbone twill. **07**
- (b) Explain the classification of fabrics based on the cover factor of the fabric. **07**
- OR**
- Q.4** (a) What is broken twill? Produce vertical & horizontal broken twill effect by constructing suitable design of each. **07**
- (b) Write a brief note on Twill & Sateen fabrics. **07**
- Q.5** (a) How 3/1 twill can be produced with subdued effect in S & Z twill direction? **07**
- (b) Explain the construction of Crepon Bedford cord. **07**
- OR**
- Q.5** (a) Discuss the factors affecting the twill angle. Also give only design for : **07**
- (I) Twill on 75° & 20° (II) Mockleno
- (b) Give design, draft, pegplan and cross-section for weft wadded welts. **07**
