

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- Vth SEMESTER-EXAMINATION – MAY/JUNE - 2012****Subject code: 152903****Date: 04/06/2012****Subject Name: Fabric Structure-I****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) What are the characteristics of toweling fabrics? Which weaves are suitable for toweling purpose. Why? Hence construct only design for Brighton Honeycomb on 16 x 16. **07**

(b) Give design, draft, pegplan and cross-section for ordinary welts & weft wadded welts. Give the significance of adding wadded threads. **07**

Q.2 (a) How 1/3 twill can be produced with prominent and intermediate effect. **07**

(b) Draw only Design for the following: **07**

i. Devon's Huck

ii. Twill on 75°

iii. Twill on 20°

OR

(b) Give design, draft & peg plan for the following: **07**

i. Crepe weave on 8 x 8 using sateen base

ii. Irregular Satin on 6 x 6.

Q.3 (a) Construct Design, Draft & pegplan of Herringbone twill with vertical effect (base twill is 3/3). **07**

(b) Give design, draft & peg plan for the following: **07**

i. Diaper on 12 x 12 (with minimum possible healdshafts)

ii. Diamond on 10 x 10 (using diamond base)

OR

Q.3 (a) Draw design, draft, pegplan & cross section of modified hopsack. **07**

(b) Give design, draft & peg plan for the following: **07**

i. Vertical Extension of 5 thread Sateen

ii. Sponge Weave

Q.4 (a) Give only design for the following: **07**

i. Mockleno

ii. Stitched Hopsack

iii. Zigzag Twill with straight Draft

(b) Explain the classification of fabrics based on the methods of producing them. **07**

OR

Q.4 (a) Give only design for the following: **07**

i. Mayo or Campbella

ii. Broken Twill (Vertical effect)

iii. Twilled Hopsack.

Q.4 (b) Give the brief description of Canvas & Poplin fabrics. **07**

Q.5 (a) Draw design & cross section of irregular warp rib and regular weft rib. **07**

(b) Explain, with the help of design, how weft way distorted thread effect is obtained. **07**

OR

Q.5 (a) Explain denting of Mockleno and plain weave with suitable example. **07**

(b) Explain the construction of Crepon Bedford cord. **07**
