

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. - SEMESTER – VI • EXAMINATION – WINTER 2012****Subject code: 162902****Date: 03/01/2013****Subject Name: Advanced fabric structure & CAD****Time: 02.30 pm - 05.00 pm****Total Marks: 70****Instructions:**

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

Q.1 What do you mean by Gauge and leno weaving? Explain fully leno weaving with all aspects of weaving. **14**

Q.2 (a) Explain factors affecting double cloth design. **07**
(b) Explain the characteristics of velveteen fabrics. **07**

OR

(b) Explain about tapestry fabrics. **07**

Q.3 What are terry pile structures? How are they produced? Explain with diagram. Draw design and cross section of 3 pick double sided terry weave. Discuss briefly ornamentation of terry fabrics **14**

OR

Q.3 (a) How warp pile structure is obtained with the help of wire? Explain with diagram. **07**
(b) Explain with diagram and design how warp pile fabric is produced on face to face principle. **07**

Q.4 Explain colour and weave effects by developing any four effects. **14**

OR

Q.4 (a) Compare fully warp backed and weft backed structures. **07**
Q.4 (b) Explain the different methods of making double cloths. **07**

Q.5 (a) Select your own spot and distribute it on 4 end irregular sateen principle over 16 ends and 16 picks. **07**
(b) Explain extra figuring fabrics. **07**

OR

Q.5 (a) In repeat area 32*32 using simple weave, compound warping and compound wefting, develop checks effect. **07**
(b) Discuss principles of jacquard designing. **07**
