

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – SUMMER 2013****Subject Code: 162902****Date: 27-05-2013****Subject Name: Advanced Fabric Structure and CAD****Time: 10.30 am - 01.30 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 is colour and weave effects? Explain by suitable designs, varieties of effects produced in hopsack weave. **07**

(b) Give classification for double cloth. Hence construct a design for self stitched double cloth. **07**

Q.2 (a) With the help of designs, discuss how ornamentation is done in terry fabrics. **07**

(b) With the help of neat sketch, explain positive easing mechanisms used in leno weaving. **07**

OR

(b) With the help of example, explain how counter leno principle is used for weaving leno fabrics. **07**

Q.3 (a) Construct design for weft back cloth. Also discuss difference between warp back cloth and weft back cloth. **07**

(b) Explain production of warp Pile fabric by single shuttle method and double shuttle method. **07**

OR

Q.3 (a) Construct design and cross-section for the following:-
i.Plain back velveteen ii.Twill back velveteen **07**

(b) Construct design , draft and peg plan for the Bird's eye effect. **07**

Q.4 (a) Explain in brief steps involves in construction of jacquard designing. **07**

(b) . construct only designs for the following:-
i.Interchanging double cloth ii.Treble cloth **07**

OR

Q.4 (a) . construct only designs for the following:-
i.Warp back cloth with wadded weft ii.compound stripe effect **07**

(b) . construct only designs for the following:-
i.weft wadded double cloth ii. Corduroy **07**

Q.5 (a) What are Extra figuring fabrics? Discuss advantages and disadvantages of extra warp figuring and extra weft figuring. **07**

(b) Construct and explain design of Extra weft figuring using one extra weft. Also draw the draft for the same. **07**

OR

Q.5 (a) Explain briefly, the steps for constructing dobby designs using any CAD software **07**

(b) Construct spot on 30 x 40. (where Ends/inch-28 and picks/inch-28). Distribute the spot in a plain order. **07**
