

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 162902**Date: 21-05-2014****Subject Name: Advanced Fabric Structure and CAD****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)** Give only designs for: **07**
i. Birds eye effect
ii. Continuous line effect (in vertical direction)
iii. Shepherd's check pattern
(b) With the help of designs, discuss how single & multicolor stripe effect can be obtained in terry fabrics. **07**
- Q.2 (a)** Construct spot effect on 20 x 20. (given fabric specifications 28 epi and 28 ppi). **07**
Incorporate plain order of distribution of spots.
(b) Give only designs for the following: **07**
i. Compound stripe effect by using compound warping, simple wefting and simple weave.
ii. Weft back cloth.
- OR**
- (b)** With the help of neat sketch, explain positive easing mechanism used in leno weaving. **07**
- Q.3 (a)** Briefly explain the construction & characteristics of Russian Cord. **07**
(b) Give only designs for the following: **07**
i. Wire warp pile
ii. Plain back corded velveteen of single cord width
- OR**
- Q.3 (a)** Write a note on Damask & brocades. **07**
(b) Discuss the advantages of fast pile anchorage with suitable designs. **07**
- Q.4 (a)** Draw design, draft & pegplan for the warp back cloth (4/1 twill 1F:1B) **07**
(b) Give Design & Cross section for the following: **07**
i. Plain back velveteen
ii. Twill back velveteen
- OR**
- Q.4 (a)** Discuss the principles of jacquard designing. **07**
(b) Discuss the different methods of removing surplus extra threads in figuring fabrics. **07**
- Q.5 (a)** Give only designs for the following: **07**
i. Weft wadded double cloth(stitching from back to face)
ii. Double cloth(stitching from face to back)
(b) Briefly explain the construction & characteristics of Net leno. **07**
- OR**
- Q.5 (a)** Give design, draft & pegplan for extra warp figuring (using 2 continuous extra warp). **07**
(b) Explain briefly the steps for developing a dobby design using CAD software. **07**
