

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER-VI • EXAMINATION – SUMMER- 2015

Subject Code:162902**Date: 04/05/2015****Subject Name: Advance Fabric Structure & CAD****Time: 10.30am-01.00am****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) With the help of design and cross-section , explain Plain back velveteen and Twill back velveteen. **07**
- (b) Give only designs for the following: **07**
- i. compound stripe pattern
 - ii. warp back cloth
- Q.2** (a) Give only designs for the following: **07**
- i. centre weft stitched double cloth
 - ii. Corduroy (corded velveteen)
- (b) Give only designs for the following: **07**
- i. Hair line effect
 - ii. Weft wadded double cloth
- OR**
- (b) Give design, draft and peg-plan for spot effect. **07**
- Q.3** (a) Explain with suitable sketches production of double plush fabric working on face to face principle in warp pile fabric. **07**
- (b) Explain Precutting, cutting and post cutting operations to produced pile effect in velveteen fabric(weft pile fabric). **07**
- OR**
- Q.3** (a) Construct Design of Treble cloth. Also Give any Two methods of drafting. **07**
- (b) Give only designs for the following: **07**
- i. Interchanging double cloth
 - ii. weft back cloth with wadded warp
- Q.4** (a) With the help of neat sketch, explain positive easing mechanism used in leno weaving. **07**
- (b) Briefly explain the construction & characteristics of Russian Cord. **07**
- OR**
- Q.4** (a) Draw Design, Draft & Pegplan for extra warp figuring using two extra warp in a continuous manner **07**
- (b) With suitable design explain stitching of weft figuring by means of special end. **07**
- Q.5** (a) With the help of examples, discuss how single & multi colour checks effect can be obtained in terry fabrics. **07**
- (b) Discuss briefly the features of any CAD software used for developing woven designs. **07**
- OR**
- Q.5** (a) Construct spot effect on 30 x 40. (given fabric specifications 28 epi and 28 ppi). Incorporate plain order of distribution of spots. **07**
- (b) Write a brief note on Tapestry Fabrics. **07**
