

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER – VI EXAMINATION – WINTER 2015****Subject Code:162902****Date:17/12/ 2015****Subject Name: Advance Fabric Structure & CAD****Time:2:30pm to 5:00pm****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) Explain how the basic sheds are formed using a flat steel doup with an eye while producing leno fabrics. **07**
- (b) With suitable design explain stitching of weft figuring by means of special end. **07**
- Q.2** (a) With the help of examples, discuss how single & multi colour stripe effect can be obtained in terry fabrics. **07**
- (b) Design your own spot and distribute it on 4 end irregular sateen principle over 20 ends and 20 picks. **07**
- OR**
- (b) With the help of suitable designs, explain how leno fabrics are produced using more than one leno assembly. **07**
- Q.3** (a) Give the function of the easing mechanism provided on a leno loom. With the help of neat sketch, explain negative easing mechanisms used in leno weaving. **07**
- (b) Draw Design, Draft & Pegplan for extra warp figuring using one extra warp in a continuous manner. **07**
- OR**
- Q.3** (a) Discuss the special mechanisms required for weaving terry fabrics. **09**
- (b) Write a brief note on Tapestry Fabrics. **05**
- Q.4** (a) Explain precutting, cutting and post cutting operation with reference to weft pile. **07**
- (b) What is the need of double cloth? construct design for the following: **07**
- i. Self stitched double cloth
 - ii. Warp back cloth with wadded weft
- OR**
- Q.4** (a) Give only designs for the following: **07**
- i. Plain back velveteen with fast pile anchorage
 - ii. Wire warp pile with cross-section
- (b) Construct only design for the following: **07**
- i. Warp wadded double cloth
 - ii. Treble cloth
- Q.5** (a) What is the difference between simple colour and weave effect and compound colour and weave effect. Also Construct design for compound check pattern. **07**
- (b) Give only designs for the following: **07**
- i. All over effect
 - ii. Corded velveteen
- OR**
- Q.5** (a) Give design, draft and pegplan for bird's eye effect. **07**
- (b) Give only designs for the following: **07**
- i. Weft backing of standard twill
 - ii. Interchanging double cloth