Seat No.: _____ Enrolment No._____

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: i. Self stitched double cloth ii. Warp back cloth with wadded weft	**07**
		OR	
Q.4	**(a)**	Give only designs for the following: i. Plain back velveteen with fast pile anchorage ii. Wire warp pile with cross-section	**07**
	(b)	Construct only design for the following: i. Warp wadded double cloth ii. Treble cloth	**07**
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: i. All over effect ii. Corded velveteen	**07**
		OR	
Q.5	**(a)**	Give design, draft and pegplan for bird's eye effect.	**07**
	(b)	Give only designs for the following: i. Weft backing of standard twill ii. Interchanging double cloth	**07**

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