Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V EXAMINATION – WINTER 2015

Subject Code: 152903 **Date:08/12/2015**

Subject Name: Fabric Structure I

Time: 10:30am to 1:00pm **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)**	Construct, design, draft & peg-plan of Herring bone twill with herring-bone draft.	**07**
	(b)	Give design, draft , peg-plan and denting order of mock-leno weave.	**07**
Q.2	**(a)**	Give only design for the following: 1. stitched hopsack 2. Broken Twill **3.** Elongated twill on 15^0	**07**
	(b)	Construct design, draft, pegplan and crossection of regular hopsack on10x10.	**07**
		OR	
	(b)	Construct only design of Brighton-honeycomb on 16x16. Also write the difference between Honey comb and brighton honeycomb.	**07**
Q.3	**(a)**	Explain with suitable diagrams, How 3/3 twill can be produced with prominent and intermediate effect.	**07**
	(b)	Give only design for the following: 1.Hopsack and twill combination(Barley corn weave) 2.Transposed Twill 3.Elongated twill on 75^0	**07**
		OR	
Q.3	**(a)**	Give only design for the following: 1. (3/2,1/2) twill , warp way in S- direction 2.Regular and Irregular warp rib 3.Regular and Irregular weft rib	**07**
	(b)	Explain representation of design, draft and peg-plan on point paper.	**07**
Q.4	**(a)**	What do you mean by cover factor? Explain the classification of fabrics based on the cover factor.	**07**
	(b)	Write a brief note on “Sateen/Satin Derivatives”	**07**
		OR	
Q.4	**(a)**	With the help of design, draft and pegplan, explain how weft corkscrew weaves are constructed.	**07**
	(b)	With help of necessary designs, explain how waved piques are formed.	**07**
Q.5	**(a)**	Explain, with the help of design, how warp way distorted thread effect is obtained.	**07**
	(b)	Construct only design and cross-section for the following: (1) Plain faced Wadded Bedford Cord. **(2)** Twill faced Bedford Cord.	**07**
		OR	

Q.5 **(a)** Give only designs for the following: **07**

1.Crepe weave using satinette & 6 thread irregular sateen

2.Diamond on 12 x 12 (using diamond base)

(b) Give the characteristics of: **07**

1. Voile fabrics.
2. Satin fabrics.

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