Seat No.:	Enrolment No.
Deal NO	Emoment no.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - WINTER • 2014

	•	Code: 152903 Date: 03-12-2014	03-12-2014	
Ti	•	Name: Fabric Structure - I 0.30 am - 01.00 pm Total Marks: 70 ns:		
		Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a)	How are crepe fabrics characterized? State the methods used to construct crepe weaves. With the help of example, explain any one method to obtain crepe weave.	07	
	(b)	Give the classification of Bedford Cords. With the help of an example, explain how Wadded Bedford cords are constructed.	07	
Q.2	(a)	Give the possible move numbers, if a regular sateen is to be constructed on 14 x 14. Give design, draft & peg plan for regular sateen on 14 x 14.	07	
	(b)	Give the characteristics of: i. Voile fabrics. ii. Seersucker fabrics.	07	
	(b)	OR Give design, draft & peg plan for the following: i. Diaper on 12 x 12 (with minimum possible healdshafts) ii. Diamond on 12 x 12 using diamond base	07	
Q.3	(a)	Give only designs for the following: i. Warp Corkscrew on 7 x7 ii. Horizontal Extension on 5 thread Sateen.	04	
	(b)	Construct only design and cross-section for the following: i. Warp Way Distorted Effect ii. Ordinary Welt on 6 picks.	10	
Q.3	(a) (b)	OR With the help of design, explain how waved piques are formed. Distinguish between Simple & Compound Fabrics.	07 07	
Q.4	(a)	What is the importance of fabric structure? What information is obtained from Design, Draft and Peg-plan?	07	
	(b)	Construct only design and cross-section for the following: i. Regular and Irregular weft rib ii. Regular and Irregular warp rib OR	07	
Q.4	(a) (b)	Construct design, draft and peg-plan for the Honey comb. Construct only design for the following: i. Stitched Hopsack	07 07	
		ii. Hopsack and twill combinationiii. Elongated twill on 15⁰		
Q.5	(a)	Explain in detail relative firmness of twill weave with suitable example.	07	
	(b)	Construct design, draft and peg-plan for the Herringbone twill. OR	07	
Q.5	(a) (b)	Construct design, draft and peg-plan for the Brighton Honey comb. Construct only design for the broken twill.	07 03	

(c)	Explain how	twill can	be constructed	with prominent	effect
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