Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V • EXAMINATION – SUMMER • 2014

Subject Code: 152903Date: 19-06-201Subject Name: Fabric Structure - ITime: 10.30 am - 01.00 pmTotal Marks: 7Instructions:Total Marks: 7			
IIISt		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Which type of weaves are suitable for toweling purpose.why? Give only design for each toweling weave.	07
Q.2	(b) (a)	Construct design, draft, peg-plan and denting of mock-leno. Give design and cross-section for the following:	07 07
	(b)	 i. Irregular hopsack on 10 x0 ii. regular warp rib and weft rib. Construct only design for the following: (1) Twilled hopsack (2) Modified hopsack (3) Elongated twill on 70⁰ OR 	07
	(b)	Construct only design for the following: (1) hopsack and rib combination (2) Elongated twill on 20 ⁰ (3) Transposed twill	07
Q.3	(a) (b)	Construct only design and draft for each of the (i.) wavy twill with vertical pattern and (ii). herring bone twill with horizontal pattern State similarities and difference between wavy twill and herring bone twill.	10 04
Q.3	(a) (b)	OR How 3/3 twill can be produced with prominent and subdued effect. Explain with suitable diagram. What information is obtained from draft and peg-plan.	10 04
Q.4	(a)	With the help of design, draft, pegplan and cross-section explain how ordinary Bedford cords are constructed. What should be done to increase the prominency of the cords?	07
	(b)	Write a brief note on Voile & crepe fabrics. OR	07
Q.4	(a)	With the help of design, draft and peg-plan, explain how warp corkscrew weaves are constructed.	07
	(b)	Give design, draft & peg plan for the following:i. Crepe on 8 x 8 using reversing principleii. Crepe on 14 x 14 using sateen base	07
Q.5	(a) (b)	 Write a brief note on Seersucker fabrics. Give design, draft & peg plan for the following: Horizontal Extension of 5 thread Sateen Diamond on 8 x 8 	07 07
Q.5	(a)	Explain, with the help of design, how warp way distorted thread effect is	07
	(b)	 obtained. Give design, draft & peg plan for the following: Irregular Sateen on 8 x 8 Diaper on 10 x 10 	07