Seat No.: Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER V • EXAMINATION – WINTER - 2012

•		de: 152903 Date: 17-01-2013	
•	: 02:3	ame: Fabric Structure - I 30 pm to 05:00 pm Total Marks: 70 ns:	
	2. N	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Construct design, draft, peg-plan and cross -section of given hopsack (2,7,3) on 12 threads.	07
	(b)		07
Q.2	(a)	With the help of examples, explain the different methods of constructing diamond weave.	07
	(b)		07
	(b)	What do you mean by sateen derivative. With the help of example, explain how extension of sateen is done in warp direction.	07
Q.3	(a)	What are the characteristics of Crepe fabric? Explain how superimposing of weaves can be done to obtain crepe weave.	07
	(b)	*	07
Q.3	(a)	Give designs for the following: i.Wadded Bedford Cord on 14 x 4 (draw Cross section also) ii.Crepon Bedford Cord	07
	(b)	Explain with design, how warp way distorted thread effect is obtained.	07
Q.4	(a)	Give designs for the following: i. Regular warp rib and Irregular weft rib (draw Cross section also) ii.Modified Hopsck	07
	(b)	What is denting? What is the difference between denting of plain weave and Hopsack? Why? Explain with suitable examples. OR	07
Q.4	(a) (b)	What are the characteristics of Towelling fabrics?	02 12
Q.5	(a)	Construct only design for the following: i.Hopsack and rib combination ii.Transposed twill with straight draft iii. Mockleno	07
	(b)	Explain with suitable designs, how Herring-bone twill can be produced more economically.	07
Q.5	(a)	OR Construct only design for the following: Florested twill on 70° and 15° ii Broken Twill	07
	(b)	i.Elongated twill on 70 ⁰ and 15 ⁰ ii.Broken Twill With suitable designs explain conditions for making any twill prominent, subdued and with intermediate effect.	07
