Seat No.:	Inrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER V • EXAMINATION – WINTER - 2012

U		code: 152903 Date: 17-01-2013	
Time	: 02	Name: Fabric Structure - I :30 pm to 05:00 pm Total Marks: 70	
Instr	1. 2.	ons: 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	On 12 threads. Enlist derivatives of Twill weave. Construct deign, draft and peg-plan of Zig-Zag Twill on pointed draft.	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	•	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		07
Q.4	(a) What are the characteristics of Towelling fabrics?	02
	(b) Which weaves are suitable for toweling fabrics? Why? Give one design for each of the toweling weaves.	12
Q.5	(a	Construct only design for the following: i.Hopsack and rib combination	07
	(b	ii.Transposed twill with straight draft iii. Mockleno	07
Q.5	(a	OR) Construct only design for the following:	07
٧.٠٠		i.Elongated twill on 70 ⁰ and 15 ⁰ ii.Broken Twill	
	(b	With suitable designs explain conditions for making any twill prominent, subdued and with intermediate effect.	07
