GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Subject Code: 2152903Date:08/12/Subject Name: Fabric Structure-I			
Time	Time:10:30am to 1:00pm Total Marks: Instructions:		
 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
Q.1	(a)	Construct only design and cross-section for the following:1. Weft Way Distorted Thread Effect.2. Weft Wadded Welt on 10 picks.	07
	(b)	State the rules for constructing regular sateen/satin. Construct regular sateen on $10 \ge 10$ with all the possible move numbers.	07
Q.2	(a)	Give only designs for the following:1. Crepe weave on 16 x 162. Weft corkscrew on 7 x 7	07
	(b)	Design your own spot and distribute it in plain order on 30 ends and 30 picks. (fabric specifications: 36 epi, 36 ppi; ground weave-1/2 twill) OR	07
	(b)	Write a brief note on "Special Fabrics".	07
Q.3	(a)	Give the classification of Bedford cords. Explain giving designs & cross-section the construction of ordinary & wadded bedford cords with pair of picks.	07
	(b)	Explain the classification of fabrics based on the complexity of structure of the fabric.	07
Q.3	(a)	OR With the help of necessary designs explain the construction of Diamond &	07
QIU	(4)	Diaper weaves.	01
	(b)	Give only design, draft & pegplan for the following:1. Irregular Satin on 6 x 62. Ordinary welt on 6 picks	07
Q.4	(a)	 Construct only design and draft for the following: 1. Twilled Hopsack 2. Elongated Twill on 20° & 60° 	07
	(b)	Explain prominency of 2/2 Twill weave.	07
Q.4	(a)	OR Construct only design and draft for the following:	07
ų.+	(u)	 Honey comb with straight draft Honey comb with pointed draft 	07
	(b)	What is the difference between denting of plain weave and hopsack. Explain with suitable design and denting order.	07
Q.5	(a)	Which are the derivatives of plain weave? Give one design for each of them.	07
	(b)	Draw design, draft and pegplan of Transposed Twill. OR	07
Q.5	(a)	Explain, how cord effect can be produced in plain weave.	07

- (b) Construct only design and draft for the following:
 - 1. Balanced, weft way twill in S-direction
 - 2. Modified Hopsack
