Ditt 110	Seat No.:	Enrolment No
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE – SEMESTER – VI (OLD).EXAMINATION – WINTER 2016

Su	bject	Code: 162902 Date: 26/10/2016	
Su	bject	Name: Advance Fabric Structure & CAD	
Ti	me: 0	2:30 AM to 05:00 PM Total Marks: 70	
Ins	tructio		
		Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	With the help of neat sketches, explain the basic sheds formed for weaving leno fabrics.	07
	<b>(b)</b>	Write a brief note on "Special mechanisms required for Terry Weaving".	07
Q.2	(a)	With the help of design, explain how figured fabrics are obtained using extra threads.	07
	(b)	Explain briefly the process of developing woven designs using any CAD software.	07
		OR  Explain the principle of Country Long as in averying of Long Echnics	07
	<b>(b)</b>	Explain the principle of Counter Leno as in weaving of Leno Fabrics.	07
Q.3	(a) (b)	Give Design, Draft & Peg plan for Hairline Effect & Continuous Line Effects.  With the help of design, explain how all over effect is used using coloured yarn.  OR	07 07
Q.3	(a) (b)	With the help of designs, explain how Terry Stripes are obtained. Write a brief note on "Damasks & Brocades"	07 07
Q.4	(a)	Construct design for Centre stitched double cloth by using centre warp and centre weft thread.	07
	(b)	Construct only design for the following:  1. Weft back cloth  2. Warp backing of standard twill	07
		OR	
Q.4	(a)	List out different methods of stitching of Treble cloth. Also construct only design for the Treble cloth.	07
	(b)	Explain how to decide size of the jacquard design and discuss points to be considered while developing the jacquard design.	07
Q.5	(a)	Construct only design for the following:  1. Interchanging double cloth  2. Warp back cloth with wadded weft	07
	(b)	Construct only design for the following:  1. Moleskin  2. Weft wadded double cloth	07
0.5		OR	<u> </u>
Q.5	(a)	Which are different methods of tying the double cloth. Construct only design for self stitched double cloth (stitching from face to back)	07
	(b)	Construct only design and cross section for the following:  1. Plain back velveteen (pile weave ½ and G:P = 1:3)  2. Corduroy	07