Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-V (NEW) - EXAMINATION - SUMMER 2017** 

Date:01/05/2017

**Total Marks: 70** 

Subject Code: 2152903

Time:02:30 PM to 05:00 PM

**Subject Name: FABRIC STRUCTURE -I** 

	Instru	actions:	
		1. Attempt all questions.	
		2. Make suitable assumptions wherever necessary.	
		3. Figures to the right indicate full marks.	
			MARKS
Λ1			
Q.1	1	Short Questions	14
	1	Enlist the derivatives of Plain weave.	
	2	Write the uses of plain weave fabric.	
	3	Enlist the derivatives of twill weave.	
	4	State the uses of twill weave.	
	5	What is sateen?	
	6	Mention the name of weave used to produce toweling fabric.	
	7	State the basic difference between diamond and diaper weave.	
	8	Define the term "Peg plan"	
	9	Enlist the methods used to produce crepe weave.	
	10	State the uses of satin/sateen fabric.	
	11	Define the term "Draft"	
	12	Enlist the types of Draft used to produce design.	
	13	State the main characteristics of twill weave.	
	14	State the end uses of honeycomb weave.	
<b>Q.2</b>	(a)	State the characteristics of twill weave.	03
	<b>(b)</b>	With help of an example, explain balanced and unbalanced twill.	04
	(c)	Draw design, draft and peg plan of herringbone twill.	07
		OR	
	(c)	Draw design, draft and peg plan of transposed twill.	07
<b>Q.3</b>	(a)	Write the characteristics of plain weave.	03
	<b>(b)</b>	Explain the ornamentation methods of plain weave.	04
	<b>(c)</b>	Draw design, draft and peg plan plain weave 10 X 10.	07
		OR	
<b>Q.3</b>	(a)	State the characteristics of sateen/satin weave.	03
	<b>(b)</b>	Draw design of irregular warp rib structure.	04
	<b>(c)</b>	Draw design, draft and peg plan of modified hopsack weave.	07
<b>Q.4</b>	(a)	State the characteristics of crepe weave.	03
	<b>(b)</b>	Draw design of crepe weave using any one method.	04
	<b>(c)</b>	Draw design, draft and peg plan of diamond and diaper weave.	07
		OR	
<b>Q.4</b>	(a)	Give the classification of Bedford cords?	03
	<b>(b)</b>	Compare extra warp with extra weft figuring.	04
	<b>(c)</b>	Draw design, draft and peg plan of plain faced Bedford cord and Twill faced	07
	, .	Bedford cord.	a -
Q.5	(a)	What are welt and pique structures?	03
	<b>(b)</b>	Draw design of Devon huckaback weave.	04
	(c)	Explain how waved piques are formed with the help of necessary design.	07

OR

Q.5	(a)	Draw design of mock leno weave.	03
	<b>(b)</b>	Draw design of Brighten honeycomb weave.	04
	(c)	Explain the graphical methods for representation of weave on point paper.	07

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