

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2024****Subject Code:3152903****Date:31-05-2024****Subject Name: Fabric Structure****Time:02:30 PM TO 05:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Enlist the derivatives of plain weave. Draw only design of Hopsack	03
	(b) What are the characteristics of Toweling fabric? Construct only design for the Brighton Honeycomb	04
	(c) Base Twill is 3/3. Construct Zig-Zag (wavy) Twill with herring Pointed draft from it and also construct the peg-plan Plan.	07
Q.2	(a) Construct only design for Transposed Twill	03
	(b) Construct design & Denting of mock leno	04
	(c) Enlist the derivatives of Twill weave. Construct design & draft for horizontal effect of Broken Twill.	07
	OR	
	(c) State the rules of constructing regular & irregular sateen. Construct one design each of regular & irregular sateen	07
Q.3	(a) Construct only design for stitched Hopsack	03
	(b) Explain how 2/2 Twill can be produced with Prominent effect in S& Z Twill direction	04
	(c) Construct design, draft and peg-plan of Honey comb weave with unequal cell formation.	07
	OR	
Q.3	(a) Construct design and cross-section of regular warp rib.	03
	(b) Construct one design each of 63° and 15°	04
	(c) Explain with suitable diagram Relative firmness of Twill weave	07
Q.4	(a) Construct only Design for Buckskin	03
	(b) Construct only design for distorted thread effect in weft way direction	04
	(c) Construct design, draft and peg-plan of Diamond weave.	07
	OR	
Q.4	(a) Construct only design for crepon bed ford cord.	03
	(b) Give the classification of fabric based on structure.	04
	(c) Explain with design stitching of weft figuring by means Of extra ends	07
Q.5	(a) Write short note on denting of different weaves	03
	(b) Construct only design for waved pique.	04

- (c) List out different methods of constructing crepe weave. construct only designs by any two methods **07**

OR

- Q.5** (a) Write short note on Cambric fabric **03**
(b) Construct only design for Diaper **04**
(c) Construct one design each of warp figuring and weft figuring **07**
