

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III(NEW) EXAMINATION – SUMMER 2023****Subject Code:3132907****Date:01-08-2023****Subject Name: Fabric Formation I****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) State the objects of sizing	03
	(b) Give difference between Precision and Drum winding machine.	04
	(c) Enlist different types of creels in warping. Explain any two type of creel with sketch.	07
Q.2	(a) Write the object of winding	03
	(b) Mention the sequence of yarn preparatory process for weaving.	04
	(c) Explain the classification of sizing machine.	07
	OR	
Q.3	(c) Write short note on quality of Knot.	07
	(a) Explain Gate type tensioning device.	03
	(b) Explain different types of drying	04
	(c) Explain in detail Sizing ingredients.	07
	OR	
Q.3	(a) Write the objects of warping.	03
	(b) Explain in brief Size cooking equipment.	04
	(c) Write short note on single end sizing.	07
Q.4	(a) Give the formulae to calculate percentage size pickup by warp yarn.	03
	(b) What is the ball warping?	04
	(c) Give the classification of winding machine. Explain cone winding briefly.	07
	OR	
Q.4	(a) Give the formulae for calculating production of warping machine.	03
	(b) Explain Size box with figure.	04
	(c) Explain modern development in warping.	07
Q.5	(a) What are the function of yarn tensioner device?	03
	(b) Explain sizing of filament yarn	04
	(c) Explain passage of material through slasher sizing machine with neat sketch.	07
	OR	
Q.5	(a) State any three recent development of modern winder.	03
	(b) Describe sizing of polyester cotton blends	04
	(c) Explain types of defects and remedial measures in warper's beam.	07