Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

	•	BE - SEMESTER-IV (OLD) - EXAMINATION – SUMMER 2017 t Code: 142805 Date: 14/06/20)17
Ti	me: structi 1 2	. Attempt all questions.	70
Q.1	(a) (b)	Explain the passage of material through hopper bale opener. Explain passage of yarn through drum winding machine with a neat sketch.	0'. 0'.
Q.2	(a)(b)	Mention the objectives of the following: (i) Desizing (ii) Scouring (iii) Bleaching (iv) Mercerising Show the passage of material on a plain power loom and state the functions of Heald frame, Reed and Temple.	07
		OR	
	(b)	Explain in brief about Scouring process.	07
Q.3	(a)	What is the purpose of ginning and state the types of gins. Explain any one of them.	07
	(b)	Explain passage of material through card with a neat sketch. OR	07
Q.3	(a) (b)	Explain combing cycle of comber with a neat sketch. Explain working principle of ring frame with a neat sketch.	07 07
Q.4	(a) (b)	Explain the passage of yarn through pirn winder with a neat sketch. Explain the passage of yarn through two cylinder slasher sizing machine with a neat sketch.	07 07
0.4	(.)	OR	O.
Q.4	(a) (b)	Explain the primary, secondary and auxiliary motions of the loom. State the classification of looms. Give the difference between Shuttle loom and Shuttleless loom.	07
Q.5	(a) (b)	Explain ordinary warping process with a neat sketch. Explain the following terms briefly: Draft, TPI, Warp, Weft, Selvedge, PPI, EPI OR	07 07
Q.5	(a) (b)	What is Singeing? Explain any one singeing machine in detail. Explain briefly the process of dyeing and printing.	0'. 0'.
