Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER- II EXAMINATION - SUMMER - 2017

	•	Code: 2722513 Date:30/05/201	17
Tiı	me: 2 tructio		70
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is SPC? How it helps to improve quality of textile manufacturing process?	07
	(b)	Define 't' test, 'f' test and Chi-Square method. Also write down application of the methods.	07
Q.2	(a) (b)	What are the main key control points in synthetic fiber manufacturing process? Discuss the effect of climatic conditions on the quality of Bast fiber? OR	07 07
	(b)	Write note on "Process control in harvesting".	07
Q.3	(a) (b)	Explain the main carding machine parameters which control the card waste. What should be the correct strategy to enhance material quality in blow room process?	07 07
0.1	(.)	OR	07
Q.3	(a) (b)	Discuss the common problems encountered during drawing operation. How combing operation influences yarn quality? Also discuss the common defects in the combing process.	07 07
Q.4	(a)	Explain different parameters in speed frame operation that influences yarn quality?	07
	(b)	Discuss the factors affecting end breakage rate in ring spinning. OR	07
Q.4	(a) (b)	Discuss the factors affecting yarn tension in rotor. List out the common faults in knitting operation. Also discuss their causes.	07 07
Q.5	(a) (b)	Write short note on controlling loom productivity and efficiency. Discuss the variable process parameters which affect needle punching process. OR	07 07
Q.5	(a) (b)	List out the defects arise in cutting operation. What are the reasons of fabric damage during sewing operation?	07 07
