Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION - WINTER 2015

Date:09/12/2015

Subject Code: 172904

Tin	•	Name: Process &Quality Control in Spinning 0:30am to 1:00pm Total Marks: 70	
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain role and scope of process control in spinning with the help of chart. Discuss control of mixing quality through fibre characteristics.	07 07
Q.2	(a) (b)	Explain in detail i. Adjustment to stock-in process and ii. chart for Yarn Realization. Explain waste control at card. Also discuss how to optimised it.	07 07
	(b)	OR Explain Peri-microscope with neat sketch.	07
Q.3	(a) (b)	Explain, with the help of necessary sketches how poor performance of blow room can be improved using gravity trap and grids in suction pipe. Write brief note on Bale management in spinning.	08
Q.3	(a) (b)	OR Explain Technological considerations involved in control of comber waste. Briefly explain need of modern process control in spinning.	
Q.4	(a) (b)	Discuss various causes of end breakages at ring frame with classification. Explain briefly the method of snap study. OR	08 06
Q.4	(a) (b)	Discuss in detail various causes of Within bobbin count variation. 'Two mills having same PI need not have same level of Profitability'. Justify the statement.	08 06
Q.5	(a) (b)	Discuss in detail random component of yarn irregularity. Discuss influence of various spinning machines on nep generation. OR	07 07
Q.5	(a) (b)	Discuss the factors affecting yarn strength. Discuss the problem of Hairiness and slub briefly.	07 07
