Seat N	[o.:	Enrolment No.		
GUJARAT TECHNOLOGICAL UNIVERSITY BE- VII th SEMESTER-EXAMINATION – MAY/JUNE- 2012 Subject code: 172904 Date: 09/06/2012				
Subject code: 172904Date: 09/00Subject Name: Process & Quality Control in SpinningTotal ManTime: 02:30 pm - 05:00 pmTotal Man				
Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.				
Q.1	(a) (b)	Discuss why process control is required in Spinning. Write on High Volume Instrumentation.	07 07	
Q.2	(a) (b)	Discuss the contribution of B.R., Card and Comber in generation of neps. Discuss the factors affecting PI of a mill. OR	07 07	
	(b)	Explain the reasons for occurrence of thick places in yarns and discuss the remedial measures.	07	
Q.3	(a)	Describe the methods to formulate mixing in terms of lea strength of yarn. What are their limitations?	07	
	(b)	Discuss the various measures to control comber waste. OR	07	
Q.3	(a) (b)	Discuss the measures to control variation in yarn quality in terms of strength. Name the faults occurring in yarn and discuss any one in detail.	07 07	
Q.4	(a) (b)	Discuss the factors causing between bobbin count variations. Discuss the reasons for occurrence of periodic irregularity and the ways to minimize it.	07 07	
Q.4	(a)	OR Write on Snap study.	07	
	(b)	Discuss the measures to optimize Quality and Quantity with respect to cost of yarn.	07	
Q.5	(a) (b)	Write on the use of modern instruments in process control. Write a short note on Package defects. OR	07 07	
Q.5	(a) (b)	Write a short note on Machinery Audit. Discuss the factors influencing successful implementation of process control in spinning.	07 07	
