Seat No.:	Enrolment No
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## GUJARAT TECHNOLOGICAL UNIVERSITY B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012

Subject code: 172904 Date: 01/01/2013

<b>Subject Name: Process &amp; Quality control in Spinnin</b>	<b>Subject Name:</b>	<b>Process</b>	&	<b>Ouality</b>	control i	n S	pinning
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Time: 10.30 am - 01.00 pm Total Marks: 70

## **Instructions:**

1.	Attempt	any five	questions.

- **2.** Make suitable assumptions wherever necessary.
- **3.** Figures to the right indicate full marks.

	J. 1	Igures to the right more term marks.	
Q.1	(a)	What is Yarn Realization? How stock-in process is adjusted for yarn realization?	07
	<b>(b)</b>	Discuss how simultaneous control of mixing cost and quality is achieved by means of graphical procedure.	07
Q.2	(a)	Define Quality and control. Discuss key variables in process control in spinning.	07
	<b>(b)</b>	What is Bale management? Discuss it. OR	07
	<b>(b)</b>	Explain modern process control in spinning in brief.	07
Q.3	(a) (b)	Discuss how Blow room performance is assessed for waste and cleaning? What is importance of controlling waste at card? How it can be optimized? OR	07 07
Q.3	(a)	Explain in detail the Technological considerations involved in determining optimum waste level at comber.	07
	<b>(b)</b>	Explain any one instrument used for Machinery Audit.	07
Q.4	(a)	Two mills having identical values of PI need not have same level of Profitability. Explain the statement.	07
	<b>(b)</b>	Discuss Random component of yarn irregularity and factors affecting it. OR	07
<b>Q.4</b>	(a)	Discuss various factors affecting between bobbin count variation.	07
Q.4	<b>(b)</b>	Discuss the effect of processing of various machines on Nep generation in spinning department.	07
Q.5	(a)	State various types of avoidable causes of loss of efficiency at ring frame along with remedial measures.	07
	<b>(b)</b>	How the yarn appearance is judged? Also mention yarn grading. OR	07
Q.5	(a) (b)	State the causes of end breaks at ring frame along with its classification.  Describe various types of yarn faults briefly.	07 07

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