

GUJARAT TECHNOLOGICAL UNIVERSITY**B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012****Subject code: 172904****Date: 01/01/2013****Subject Name: Process & Quality control in Spinning****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.

- Q.1** (a) What is Yarn Realization? How stock-in process is adjusted for yarn realization? **07**
- (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) What is Bale management? Discuss it. **07**
- OR
- (b) Explain modern process control in spinning in brief. **07**
- Q.3** (a) Discuss how Blow room performance is assessed for waste and cleaning? **07**
- (b) What is importance of controlling waste at card? How it can be optimized? **07**
- OR
- Q.3** (a) Explain in detail the Technological considerations involved in determining optimum waste level at comber. **07**
- (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) Discuss Random component of yarn irregularity and factors affecting it. **07**
- OR
- Q.4** (a) Discuss various factors affecting between bobbin count variation. **07**
- Q.4** (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) How the yarn appearance is judged? Also mention yarn grading. **07**
- OR
- Q.5** (a) State the causes of end breaks at ring frame along with its classification. **07**
- (b) Describe various types of yarn faults briefly. **07**
