

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII(OLD) • EXAMINATION – WINTER 2016

Subject Code: 172904**Date: 23/11/2016****Subject Name: Process & Quality Control in Spinning****Time: 10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain simultaneous control of mixing cost & quality by graphical method. **07**
 (b) How machinery audit is different than routine maintains. Explain with neat diagram any one instrument used for machinery audit. **07**
- Q.2** (a) Explain considerations for method of lap preparation and pre-comber draft in control of comber waste. **07**
 (b) What is Yarn Realisation? Discuss methods of assessing and controlling it. **07**
- OR**
- (b) Explain Gravity Trap and grids in suction pipe to improve performance of blow-room. **07**
- Q.3** (a) Explain how to decide key variables and Establishing norms or Standards for process control in spinning. **07**
 (b) Explain importance and procedure of Bale management. **07**
- OR**
- Q.3** (a) Explain change in testing methods used in modern process control in spinning. **07**
 (b) Explain brief note on optimizing cleaning and waste at card. **07**
- Q.4** (a) Discuss various factors that affect yarn strength. **07**
 (b) Describe important steps to carry out Snap study at Ring Frame department. **07**
- OR**
- Q.4** (a) Explain the meaning of 'Between bobbin count variation'. How it can be measured? Hence discuss influence of Speed Frame and Ring Frame processing on Between bobbin Count variation. **07**
 (b) 'Two Mills having same Productivity Index need not have same level of Profitability.' Justify the statement. **07**
- Q.5** (a) Discuss in detail various causes of End breakage rate at Ring frame and classify them into various categories. **08**
 (b) Describe briefly causes and remedial measures for (i) Crackers (ii) Spinner's double. **06**
- OR**
- Q.5** (a) Elaborate on various factors that are to be considered while implementing Process control in mill. **07**
 (b) Discuss in detail various factors that affect Neps in yarn. **07**
