Hnro	lment
1 7111 ( )	

Date: 12/05/2015

Seat No.:	
No.	

Subject Code: 172904

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE SEMESTER- 7th EXAMINATION - SUMMER 2015**

	Tim	ject Name: Process & Quality Control in Spinning e: 02.30PM-05.00PM Inctions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a)	What is importance of controlling cleaning at card? How card waste is optimized?	07
	<b>(b)</b>	Describe determination of trash content and cleaning efficiency for blow room.	07
Q.2	(a)	Describe following for Yarn realization:- i. Allowance for hank-meter records ii. Adjustment to stock in process	07
	<b>(b)</b>	Explain in detail all know how of Instrumental evaluation for the formulation of mix.	07
	<b>4</b> \	OR	
	<b>(b)</b>	Explain ATIRA approach to L.P. for cotton mixing.	07
Q.3	(a)	<ul><li>i. Method of establishing norms or standards</li><li>ii. Need of modern process control in spinning</li></ul>	07
	<b>(b)</b>	Discuss the method for routine check of comber waste.	07
		OR	
Q.3	(a)	State the avoidable causes of loss in efficiency at ring frame and suggest remedial measures for each of them.	07
	<b>(b)</b>	Discuss implementation of the Machinery audit.	07
<b>Q.4</b>	(a)	Explain the term LER.	07
	<b>(b)</b>	Hence discuss how LER can be controlled in spinning mill.	07
	<b>(b)</b>	Discuss briefly problem of : (i) slough off (ii) slubs	07
		OR	
Q.4	(a) (b)	Explain the causes of periodic and quasi periodic component of yarn irregularity. Write short note on:  (i) Rkm Value (ii) Classimat faults	07 07
Q.5	(a)	'Blow room and Carding do not affect within bobbin count variation'.  Justify the statement.	07
	<b>(b)</b>	Discuss the role of speed frame with reference to between bobbin count variation.	07
o -		OR	~
Q.5	(a) (b)	Discuss the effect of various spinning machines on yarn unevenness.  What is the significance of process control in a spinning mill?  Discuss how it can be implemented in a mill.	07 07

\*\*\*\*\*