Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V EXAMINATION - WINTER 2015

Subje	ect (Code: 152901 Date:15/12/2015	
Subje	ect l	Name: Yarn Manufacturing-III	
Гime	: 10	0:30am to 1:00pm Total Marks: 70	
Instru			
		Attempt all questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Enlist the commonly used winds for spinning & explain any one of them with neat figure.	06
	(b)	What is meant by Spinning Geometry? Show the angles & dimensions making up it in a neat & labeled sketch.	08
Q.2	(a)	Discuss the techniques developed to eliminate the Spinning triangle.	07
-	(b)	Discuss the factors affecting tension in yarn. OR	07
	(b)	With a neat figure explain the working of Builder motion in Ring frame.	07
Q.3	(a)	Discuss the significance of Top roller cots.	07
	(b)	Discuss the developments in drafting system at Ring frame. OR	07
Q.3	(a)		07
	(b)	Discuss the features of Modern Ring spindle.	07
Q.4	(a)	Enlist the function of the spinning ring. Discuss the limitations of conventional ring & c-shaped traveler system.	08
	(b)		06
Q.4	(a)	Enlist the functions of Ring traveler. With a neat sketch designate traveler parts.	08
	(b)	Discuss the manufacture of Gimp yarn & Snarl yarn.	06
Q.5	(a)	Discuss the possibilities for automation in Ring frame.	07
	(b)	Explain with a neat figure the construction of Two-for-one spindle. OR	07
Q.5	(a)		08
	(b)	Discuss Scotch system of doubling.	06
