Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V • EXAMINATION – SUMMER • 2015

Subject Code: 152901 **Date: 02/05/2015**

Subject Name: Yarn Manufacturing - III

Time: 02.30pm-05.00pm **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)**	Enlist the commonly used winds for Spinning. Explain in detail anyone of them.	**07**
	(b)	With a neat figure show angles and dimensions making up the Spinning Geometry.	**07**
Q.2	**(a)**	Explain in detail Balloon theory.	**07**
	(b)	Enlist the types of motor used in Ring spinning mills. Explain features, advantages and disadvantages of any one.	**07**
		OR	
	(b)	Explain in detail developments in Drafting at Ring frame	**07**
Q.3	**(a)**	Enlist the Spinning, Doubling and Twisting drive systems. Explain in detail any one of them.	**07**
	(b)	Explain in detail Builder motion on Ring frame.	**07**
		OR	
Q.3	**(a)**	Highlight the features of Modern Spindle.	**07**
	(b)	Discuss in detail the basic steps of Ring manufacture.	**07**
Q.4	**(a)**	Sketch and describe the different parts of Traveller.	**07**
	(b)	Explain in detail Wet Doubling systems.	**07**
		OR	
Q.4	**(a)**	Define the terms : i. Ply yarn ii. Cabled yarn iii. Doubled yarn.	**07**
Q.4	**(b)**	Discuss the possibilities for automation in Ring frame.	**07**
Q.5	**(a)**	Discuss about the effect of Doubling.	**07**
	(b)	Discuss the manufacture of Two-colour spot yarn and Loop yarn.	**07**
		OR	
Q.5	**(a)**	Discuss in brief about reducing end breakages in Doubling.	**07**
	(b)	Explain in brief Two-For-One system of Twisting.	**07**

****