Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - WINTER • 2014

	U	Code: 152901 Date: 26-11-2014 Name: Yarn Manufacturing - III	
	tructio	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Discuss in brief Combination Wind. Explain in detail Balloon theory.	05 09
Q.2	(a)(b)	What do you mean by Spinning Geometry? Discuss the implication of Spinning Triangle. Explain the mechanism for building the base in Ring Spinning with a neat sketch. OR	07 07
	(b)	Discuss in brief about Travelling Cleaner.	07
Q.3	(a) (b)	Discuss methods of controlling tension variation at Ring spinning. Enlist the types of motor used in Ring spinning mills. Explain features, advantages and disadvantages of any one. OR	07 07
Q.3	(a) (b)	Enlist the Spinning, Doubling and Twisting drive systems. Explain in detail any one of them. Discuss in brief the snarling and associated problems.	08
Q.4	(a) (b)	Discuss in detail developments in drafting at Ring frame. Discuss the manufacture of Two-colour spot yarn and Loop yarn. OR	08 06
Q.4	(a) (b)	Explain in brief Two-For-One system of Twisting. Compare "Z" on "Z" and "S" on "Z" Doubled yarns.	08 06
Q.5	(a) (b)	Discuss the significance of Traveller mass. Discuss the defects and remedies in Doubler frame. OR	07 07
Q.5	(a) (b)	Discuss the basic steps in manufacture of Ring. Discuss Scotch system of Doubling.	07 07
