GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - V (NEW) EXAMINATION - WINTER 2015

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•	e: 10:3 ctions: 1. A 2. I	Jame: Yarn Manufacturing-III 30am to 1:00pm Total Marks: 70 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Discuss in brief basic operations of Ring Spinning. Explain in detail Balloon theory.	06	
Q.2	(a) (b)	Draw a neat sketch of mechanism used for building the cop base. Define the terms: i. Centre of gravity ii. Centre of symmetry iii. Coriolis force. OR	08 06	
	(b)	Discuss in brief the implications of Spinning Triangle.	06	
Q.3	(a)	Highlight the essential requirements of modern spinning spindles & their practical solutions.	07	
	(b)	Discuss in detail features of Compact Spinning system. OR	07	
Q.3	(a) (b)	Describe the construction of the Spindle assembly of ring frame showing different parts & give their functions. Discuss the process of Ring Manufacture.	07	
Q.4	(a) (b)	Discuss the significance of Traveller Mass. Discuss in brief about Roboload. OR	07 07	
Q.4	(a) (b)	Discuss in brief about Travelling Cleaner. Write in brief about preparation for doubling. Also show the passage of yarn through Doubler winding machine.	07 07	
Q.5	(a) (b)	With a neat sketch discuss about Loop yarn. Compare Dry & Wet Doubling. OR	07 07	
Q.5	(a) (b)	Discuss in brief about reducing end breakages in Doubling. Discuss manufacture of Two-Colour Spot varn.	07 07	
