GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V • EXAMINATION – SUMMER • 2014

Subject Code: 152901Date: 11-06-2014Subject Name: Yarn Manufacturing - IIITotal Marks: 70Time: 10.30 am - 01.00 pmTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Discuss in brief basic operations of Ring Spinning. Explain the mechanism for building the base in Ring Spinning with a neat sketch.	07 07
Q.2	(a) (b)	Discuss in detail developments in Drafting at Ring frame. Enlist the spinning spindle drive systems. Discuss in brief any one of them. OR	07 07
	(b)	Discuss in detail the essential requirements of Modern spinning spindles and their practical solutions.	07
Q.3	(a) (b)	Describe the method of Ring manufacture. Sketch and describe the different parts of the Traveller. OR	07 07
Q.3	(a) (b)	Enlist the types of motor used in Ring Spinning mills. Explain features, advantages and disadvantages of any one. Discuss in brief about possibilities for automation in Ring frame.	07 07
Q.4	(a) (b)	Discuss in detail the defects and remedies on a Doubler frame. Discuss in brief about Doffing at Ring frame. OR	07 07
Q.4	(a) (b)	Explain in detail Wet Doubling systems. Discuss about effect of Doubling.	07 07
Q.5	(a) (b)	Write in brief about Loop yarn and Slub yarn. Discuss in brief about reducing end breakages in Doubling. OR	07 07
Q.5	(a) (b)	Explain in brief Two-for-one system of twisting. Discuss manufacture of Two-colour spot yarn.	07 07
