Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–V • EXAMINATION – SUMMER 2013

Subject Code: 152901 **Date: 14-05-2013**

Subject Name: Yarn Manufacturing - III

Time: 10.30 am - 01.00 pm **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)**	Discuss significance of Top roller cots at Ring frame.	**07**
	(b)	State the basic objects of doubling. Hence explain process of Dry doubling briefly with neat sketch.	**07**
Q.2	**(a)**	Define the terms : i. Traveller count ii. Centre of gravity	**07**
	(b)	Discuss in brief about Offset drafting by INA.	**07**
		OR	
	(b)	Discuss the advantages of Spheropoint over conventional footstep bearing.	**07**
Q.3	**(a)**	Enlist the functions of Spinning Ring. Define the terms: i. Web. ii.Flange	**07**
	(b)	Discuss in brief about component parts of Automatic Doffing installation in Ring frame.	**07**
		OR	
Q.3	**(a)**	Discuss the points to be considered before selecting traveller profile.	**07**
	(b)	Discuss Ring data system.	**07**
Q.4	**(a)**	Discuss methods of controlling tension variation at Ring spinning.	**07**
	(b)	Discuss in brief Reverse Warp Wind.	**07**
		OR	
Q.4	**(a)**	Compare Wet doubling and dry doubling.	**07**
	(b)	State important aspects of manufacturing of Sewing thread briefly.	**07**
Q.5	**(a)**	Explain twisting on Two – for – One system briefly with neat sketch. Also state the advantages of TFO.	**07**
	(b)	Discuss manufacturing of following Fancy yarns with neat sketch (i) 2 colour spot yarn (ii) Gimp yarn	**07**
		OR	
Q.5	**(a)**	Discuss the influence of doubling on various properties of yarn.	**07**
	(b)	Discuss manufacturing of following Fancy yarns with neat sketch (i) Snarl yarn (ii) loop yarn	**07**

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