Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- IVth SEMESTER–EXAMINATION – MAY/JUNE- 2012

Subject code: 142901 **Date: 23/05/2012**

Subject Name: Yarn Manufacturing - II

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 briefly following problems with reference to Draw frame : (i) Drafting wave (ii) Roller slippage	**07**
	(b)	Describe Combing Cycle of any comber with suitable diagrams.	**07**
Q.2	**(a)**	Explain why Even numbers of Passages are always used between Card and Comber.	**07**
	(b)	Discuss the various developments that have taken place in loading arrangement of Draw Frame.	**07**
		OR	
	(b)	Explain Ideal Theory of Drafting briefly with neat sketch.	**07**
Q.3	**(a)**	What is the role of Autoleveller at Draw Frame? Describe different types of Autolevellers briefly.	**07**
	(b)	Describe Super Lap former with neat sketch.	**07**
		OR	
Q.3	**(a)**	Describe features of Modern Draw frame.	**07**
	(b)	Describe Differential motion at Speed frame briefly with neat sketch.	**07**
Q.4	**(a)**	Describe various types of gauges used for settings at Comber with neat sketch.	**07**
	(b)	Describe Any Two settings of Comber.	**07**
		OR	
Q.4	**(a)**	Explain Forward feed comber briefly.	**07**
	(b)	Calculate Production of Comber from Following data : Feed/nip – 10 mm Nips/min – 300 Efficiency – 85% Length of Lap – 200 yards Weight of Lap – 6750 gms Noil % - 12 %	**07**
Q.5	**(a)**	Explain Flyer lead and Bobbin Lead machines briefly with its merit and demerits.	**07**
	(b)	Discuss the Objects of Speed frame. Also explain necessity of Speed frame in Spinning line.	**07**
		OR	
Q.5	**(a)**	Discuss the objects of Builder Mechanism on speed Frame. Only Draw diagram of American Builder.	**07**
	(b)	Describe important features of Modern Speed Frame.	**07**

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