Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–IV EXAMINATION – SUMMER 2016

Subject Code:142901 **Date:03/06/2016**

Subject Name:Yarn Manufacturing-II

Time:10:30 AM to 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 the objectives of Drawframe and how it is achieved.	**07**
	(b)	Explain the passage of material on a Speedframe.	**07**
Q.2	**(a)**	Explain the advantages of Combing and the working of a modern Comber with a neat sketch.	**07**
	(b)	Write a short note on types of drafting systems.	**07**
		OR	
	(b)	Explain different parameters influencing combing operation.	**07**
Q.3	**(a)**	Enlist the merits and demerits of dead weight spring and pneumatic loading arrangement in Drawframe drafting system.	**07**
	(b)	Discuss the special features of Autolevellers given on the Drawframe.	**07**
		OR	
Q.3	**(a)**	Discuss the problems of drafting wave and roller nip movement on Drawframe.	**07**
	(b)	Explain the concept of ideal drafting and actual drafting.	**07**
Q.4	**(a)**	Write on the preparation carried out of the sliver before being taken for the combing operation.	**07**
	(b)	Discuss the factors affecting the quality of roving at Speedframe.	**07**
		OR	
Q.4	**(a)**	Discuss the noil theory by Gegauff in detail.	**07**
	(b)	Write a short note on flyers at Speedframe.	**07**
Q.5	**(a)**	What are flyer lead and bobbin lead machines in speed frame? Discuss their advantages and disadvantages.	**07**
	(b)	Discuss the latest developments in the Drawframe, Comber and Speedframe.	**07**
		OR	
Q.5	**(a)**	State the objectives of Builder motion and explain how it is achieved on Speedframe.	**07**
	(b)	Derive the formula for calculation of production at Drawframe, Comber and Speedframe.	**07**

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