Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–III • EXAMINATION – WINTER • 2014

Subject Code: 132901 **Date: 01-01-2015**

Subject Name: Textile Fibers

Time: 02:30 pm - 05:00 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)**	Give broad classification of Textile Fibers.	**07**
	(b))	State the advantages of natural & man-made fibers.	**07**
Q.2	**(a)**	Discuss about the silk reeling & silk throwing processes.	**07**
	(b)	Give the classification of Man-made textile fibers.	**07**
		OR	
	(b)	Discuss in detail about morphological structure of cotton.	**07**
Q.3	**(a)**	Explain the manufacturing process of Nylon by VK-tube method.	**07**
	(b)	Explain silk reeling & silk throwing processes.	**07**
		OR	
Q.3	**(a)**	How the spinning of Viscose Rayon is carried out?	**07**
	(b)	How cotton is cultivated? Give it's properties.	**07**
Q.4	**(a)**	Discuss in detail about the essential properties of Textile fibers.	**07**
	(b)	Write notes on Linen & Angora fibers.	**07**
		OR	
Q.4	**(a)**	What is Polymerization? Compare between Addition & Condensation Polymerization.	**07**
	(b)	Explain the manufacturing process of Polyester.	**07**
Q.5	**(a)**	Discuss about morphology of Wool fibre.	**07**
	(b)	Give the properties of Polyester fibre.	**07**
		OR	
Q.5	**(a)**	Write a note on Jute fibre.	**07**
	(b)	Draw neat sketches of cross-sectional shape of all natural fibres along with their densities.	**07**

****