Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER-III EXAMINATION - WINTER 2015**

Subject Code:132901 Subject Name: Textile Fibres Time: 2:30pm to 5:00pm Instructions:			Date:23/12/2015  Total Marks: 70	
		:30pm to 5:00pm Total Marks: '		
		Attempt all questions.  Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Explain in detail the essential properties of textile fibre.  Give the spinning and drawing technique for Polyester fibre manufacturing.	07 07	
Q.2	(a) (b)	Explain in detail the manufacturing of wool fibre.  Explain in detail the growth, production and manufacture of jute fibre.  OR	07 07	
	<b>(b)</b>	Write a note on wild silk fibre.	07	
Q.3	(a)	Explain in detail the growth and production, harvesting and manufacture of Linen fiber.	07	
	<b>(b)</b>	With neat sketch give microscopic longitudinal and cross-sectional view of any two natural fibre.	07	
0.1	(.)	OR	07	
Q.3	(a) (b)	Write the properties of Sisal and pineapple leaf fibre. Write a note on grading of wool.	07 07	
Q.4	(a) (b)	Depict the chip formation technique of nylon 6, 6 fibre with neat sketch. Discuss the techno-chemical aspects for manufacturing of polyacrylonitrile fibres.	07 07	
		OR		
Q.4	(a) (b)	Enlist and discuss about physical and chemical properties of Bemberg fibres. Give the detailed manufacturing of polypropylene fibre with its properties.	07 07	
Q.5	(a) (b)	Elucidate about various properties of viscose rayon.  Give the synthesis process, properties and applications of Saran fibres.  OR	07 07	
Q.5	(a) (b)	Explain the complete flow to synthesis acetate rayon.  Depict on the following requirement of fibre forming polymer in depth:  - Higher melting point  - Orientation	07 07	

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