Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER III – • EXAMINATION – SUMMER 2015

Subject Name: Textile Fibres		Code:2132901 Date:02/06/201	Date:02/06/2015 Total Marks: 70	
		2.30pm-05.00pm Total Marks:		
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Give detailed classification of textile fibre. Discuss the flow line of fibre manufacturing through Melt spinning technique with neat diagram.	07 07	
Q.2	(a) (b)	Explain the physical and chemical properties of cotton fibre. Explain the cultivation, production and properties of Ramie fibres OR	07 07	
	(b)	Write a note on natural mineral fibre.	07	
Q.3	(a) (b)	With neat sketch give the microscopic appearance of the Linen and Hemp fibre. Explain the manufacturing of pineapple leaf fibre. OR	07 07	
Q.3	(a) (b)	Write a note on any one Hair fibres. Explain in detail properties of Silk Fibre.	07 07	
Q.4	(a) (b)	Explain in detail about the continuous direct spinning process of Nylon 6. Discuss about various properties of Polyester fibres. OR	07 07	
Q.4	(a) (b)	Describe the manufacturing processes for Casein fibres and groundnut fibres. Write in depth on manufacturing process, properties and applications of Vinyon Fibre.	07 07	
Q.5	(a) (b)	Discuss the complete manufacturing process for PAN fibres. Describe the techno-chemical aspects associated with manufacturing of cuprammonium rayon.	07 07	
Q.5	(a)	OR Discuss the importance of metallic fibres in textiles with its suitable manufacturing process.	07	
	(b)	Give the method to synthesis carbon fibres with its properties.	07	
