Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER– III EXAMINATION – SUMMER 2015

Subject Code: 132901 **Date:02/06/2015**

Subject Name: Textile Fibres

Time: 02.30pm-05.00pm **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)**	Answer the following OBJECTIVE questions:	**07**
	i.	The category of polypropylene fibre is _____.	
	ii.	The natural fibre _____ is known as aristocrat fibre.	
	iii.	PAN fibres cannot be spun by _____ spinning technique.	
	iv.	Name any two regenerated cellulosic fibres.	
	v.	The fibre used majorly in technical textile that floats on water is _____.	
	vi.	Natural best heat insulator fibre is _____.	
	vii.	The important solvent used to convert triacetate to diacetate is _____.	
	(b)	State various properties of polyester fibres.	**07**
Q.2	**(a)**	State the production line of cotton fibre.	**07**
	(b)	Give the detailed classification of all types of Textile fibres.	**07**
		OR	
	(b)	Discuss the manufacturing, properties and applications of Saran fibres.	**07**
Q.3	**(a)**	Explain the detailed method for chips formation of Nylon 6 fibres.	**07**
	(b)	Enlist various fibre spinning techniques. Enumerate on any one in detail with neat sketch.	**07**
		OR	
Q.3		Give the detailed manufacturing of viscose rayon with flow diagram.	**14**
Q.4	**(a)**	State various properties of wool fibres.	**07**
	(b)	Write a brief note on minor hair fibres.	**07**
		OR	
Q.4	**(a)**	Discuss production, properties and applications of Hemp fibres.	**07**
	(b)	Enlist various physical, chemical and other properties of Linen fibres.	**07**
Q.5	**(a)**	Explain the manufacturing process of acetate rayon in detail.	**07**
	(b)	Discuss in detail about sericulture.	**07**
		OR	
Q.5	**(a)**	State the list of various requirements for the fibre formation. Discuss about any two in detail.	**07**
	(b)	Write a detailed note on Bamboo fibres.	**07**

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