Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III • EXAMINATION – SUMMER 2013

Subject Code: 132901 Date: 04-06-20			
		Name: Textile Fibres	
	e: 02. ictions	.30 pm - 05.00 pm Total Marks: 70	
Instru	1. 2.	s: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Answer the following OBJECTIVE questions:	
	i.	The solvent for cotton fibre is	
	ii.	Name any two Polyolefin fibres.	
	iii.	The raw material used for manufacturing Polyester fibres apart from	
		Ethylene Glycol is or	
	iv.	Name any two leaf fibres.	
	v.	What is meant by deaeration?	
	vi.	Natural fibres have lower melting points. True/False. Justify your answer.	
	vii.	Primary cellulose acetate is generally known as	
	(b)	Explain the microscopic appearance of Cotton fibres.	
Q.2	(a)	Explain the growth, production and properties of Jute fibres.	
	(b)	Enlist the requisites for polymers to be a fibre. Describe any THREE in	
		depth.	
		OR	
	(b)	Depict the broad chips formation technique of Nylon 6, 6 fibres.	
Q.3	(a)	Explain in detail about Ramie fibre.	
	(b)	Write the manufacturing procedure for Polypropylene fibres showing its	
		various properties.	
		OR	
Q.3	(a)	Explain briefly the minor hair fibres.	
	(b)	Depict the spinning and drawing operations to manufacture PET fibres with	
		neat sketch.	

Q.4		Describe the complete manufacturing process sequence of Viscose rayon	14			
		along with the flow chart of the same.				
	OR					
Q.4	(a)	Explain the physical and chemical properties of Wool fibres.	07			
	(b)	Explain the growth and manufacture of Linen fibre.	07			
Q.5	(a)	Elaborately discuss different steps involved in manufacturing of Acetate	10			
		rayon. Also give numerous physical and chemical properties of the same.				
	(b)	Give manufacturing and properties of Vinyon fibres.	04			
	OR					
Q.5	(a)	Explain in detail the Pineapple leaf fibre.	07			
	(b)	Explain the manufacture of spun silk fibres.	07			
