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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2019			
Subject Code: 2152907 Date: 19/06/2019			
0			
Subject Name: Man Made Fibre Technology			
Time: 02:30 PM TO 05:00 PMTotal Marks: 70			
Instructions:			
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
		i igures to the right indicate run marks.	MARKS
01	(a)	Describe important properties of man made fibres which has made it yers	03
Q.1	(a)	Describe important properties of man made fibres which has made it very popular.	05
	(b)	Discuss in brief about thermal transition.	04
	(c)	With a neat sketch describe process of air jet texturising.	07
	(C)	while a near sketch deserve process of an jet texturising.	07
Q.2	(a)	Explain crystalanity and orientation in manmade fibres.	03
×	(b)	Discuss briefly about fibres with noncircular cross section and hollow	04
	(~)	fibres.	•••
	(c)	With a neat sketch describe turbo stapler.	07
		ÔR	
	(c)	Describe super micro filaments and its production technique.	07
Q.3	(a)	Mention different routes through which polyester can be made flame	03
		retardant.	
	(b)	•	04
	(c)	List out various methods of spin finish and describe any two methods	07
		briefly with neat sketch.	
0.0		OR	0.2
Q.3	(\mathbf{a})		03
	(b)		04
	(c)	What is heat setting and why it is carried out ?	07
		Hence describe temporary sett. Also state its limitation.	
Q.4	(a)	State the types of aramid fibres.	03
T .7	(a)	Hence state their applications.	03
	(b)	Write a short note on metal fibres.	04
	(c)	Describe briefly manufacturing process of tyre cords.	07
	(0)	OR	01
Q.4	(a)	Describe applications of kynol fibres.	03
C	(b)	Write a short note on carbon fibres.	04
	(c)	State different varieties of glass fibres.	07
		Discuss important properties and applications of glass fibres.	
Q.5	(a)	State the objects of texturising.	03
	(b)	Describe gear crimping briefly.	04
	(c)	Describe false twist texturising process with neat sketch.	07
		OR	
Q.5	(a)	Describe briefly defects in false twist textured yarn.	03
	(b)	Describe important process variables in false twist texturising.	04
	(c)	With a neat sketch describe stuffer box texturising.	07
