GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III(New) • EXAMINATION - WINTER 2016 Subject Code:2132901 Date:02/01/2017 **Subject Name: Textile Fibres** Time:10:30 AM to 01:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. MARKS 14 Q.1 **Short Questions** 1 Commercial name of Cuprammonium fibre is _____. 1 Name the fibre which floats on water. 2 1 Standard moisture regain of polyester fibre is _____. 3 1 Give the name of solvent for wool fibre. 4 1 Deaeration can be done by applying _____ in the vessel. 5 1 6 Name any two inorganic fibres. 1 7 Name the fibre obtained from coconut husk. 1 8 ______ fibre completely disintegrates in formic acid. 1 9 Diisocyanate is the important raw material to manufacture _____ 1 fibres. Silk is produced in staple fibre form naturally. True/False. 10 1 Name the synthetic fibre which resembles natural wool. 11 1 12 Orientation to the synthetic fibres is imparted by the process called 1 Name the fibre which possesses twisted ribbon type of longitudinal view. 13 1 Linen fibre on the basis of chemical constitution falls under category of 1 14 fibres. Discuss the importance of higher melting point for a polymer to be **Q.2 (a)** 03 considered as textile fibre. (b) Depict about melt spinning technology for fibre extraction. 04 (c) Explain various steps involved in production of triacetate fibre. 07 OR State the growth, cultivation and production of flex fibre. 07 (c) 0.3 Explain in brief about Mohair fibre. (a) 03 (b) Discuss the growth and cultivation of Ramie fibres. 04 Write a note on Pineapple leaf fibres. 07 (c) OR (a) Give various applications of coir fibre. 0.3 03 (b) Draw cross sectional views of any four natural fibres. 04 Enumerate on various properties of cotton fibre. 07 (c) (a) Mention about tacticity of synthetic fibres. **O.4** 03 (b) Give the manufacturing process of Vinyon fibre. 04 Explain the detailed process to produce Nylon 6 chips. 07 (c) OR

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Q.4 (a)Note few important lines on casein fibres.03(b)Give the drawing process of Nylon 6 6 fibre.04

	(c)	Introduce PET fibres. Describe about various properties of PET fibres in	07
		depth.	
Q.5	(a)	Enlist different types of silk fibres.	03
	(b)	Brief out some ideas on Asbestos fibre.	04
	(c)	State various properties of Bemberg fibres.	07
		OR	
Q.5	(a)	Describe some distinguishing characteristics of polypropylene fibres.	03
	(b)	Explain the wet spinning process of Viscose Rayon.	04
	(c)	Explain the manufacturing of wool fibre in depth.	07
