

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2182903****Date:09/05/2019****Subject Name:Technical Textile-II****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
Q.1	(a) State some of the applications of protective textiles.	03
	(b) Explain different types of blankets used in hospitals.	04
	(c) Discuss in brief about Aircraft Textiles.	07
Q.2	(a) What is tissue engineering?	03
	(b) Explain some of the important types of non-implantable materials.	04
	(c) With the help of neat diagrams, explain some of the smart textiles used in medical fields.	07
	OR	
	(c) Discuss the factors considered when choosing or designing a fabric for particular application of Geotextiles.	07
Q.3	(a) Classify medical textiles.	03
	(b) Short note on – Teflon Coated Medical Blades	04
	(c) State the object of conveyor belt. With the help of neat diagrams, explain any three types of conveyor belts used in industries.	07
	OR	
Q.3	(a) Short note on – Carbon reinforced plastics.	03
	(b) State and explain some of the applications of spider silk in medical textiles.	04
	(c) Discuss about flame retardant fabrics. Also, discuss characteristics and raw materials for flame retardant fabrics.	07
Q.4	(a) State some of the applications of industrial fabrics in electrical cables.	03
	(b) Discuss some of the important properties and applications of glass reinforced plastics.	04
	(c) Discuss the factors considered when selecting a fabric for Protective textiles.	07
	OR	
Q.4	(a) Short note on Geosynthetics.	03
	(b) What is Lotus effect ?	04
	(c) Discuss the use of nanotechnology for imparting anti-bacterial and wrinkle resistance property to textiles.	07
Q.5	(a) Future prospects in the field of Technical Textiles.	03
	(b) Write a short note on textiles used in passenger cars.	04
	(c) Nylon 6,6 is preferred over Polyester for Air Bag. Give reason.	07
	OR	
Q.5	(a) Filtration application of geotextiles.	03
	(b) Short note on X-Tethers.	04
	(c) Write a short note on textiles used in other road vehicles.	07
