Seat No.: Enrolment No	
------------------------	--

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION - SUMMER 2014

•		Code: 182903 Date: 03-06-2014 Name: Technical Textiles II	
		10:30 am TO 01:00 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) (b)	Define the terms: i. Geosynthetics ii. Geotextiles Discuss in brief primary functions of Geotextiles.	07 07
Q.2	(a)	discuss in brief about tyre cord fabric.	07
	(b)	Discuss about OPW side curtain airbags and X-Tethers. OR	07
	(b)	Discuss the enormous weight benefits thanks to use of textiles in automobiles.	07
Q.3	(a) (b)	What is Tissue Engineering? Discuss the advances in it. Discuss the use of nanotechnology for imparting anti-bacterial and wrinkle resistance property to textiles.	07 07
		OR	
Q.3	(a) (b)	What is the Lotus Effect? Discuss in brief about Aircraft Textiles.	07 07
Q.4	(a) (b)	State the object of conveyor belt. With the help of neat diagrams, explain different types used in industries.	07 07
0.4	(a)	OR State and explain different structures of fabrics used as sheet liners along with detailed	07
Q.4	(a)	State and explain different structures of fabrics used as shoe liners along with detailed specifications and figures.	U/
	(b)	State the properties and applications of carbon reinforced plastics.	07
Q.5	(a)	State some of the applications of protective textiles. Explain in detail about the raw materials, characteristics and requirements of bullet-proof jackets.	07
	(b)	State and explain physical, environmental and economic considerations/requirements of protective textiles.	07
0.5	(a)	OR Classify medical taytiles depending upon the gross of application. Also, state the fibers	07
Q.5	(a)	Classify medical textiles depending upon the areas of application. Also, state the fibers which are used in the field of medical textiles.	07
	(b)	With the help of neat diagrams, explain different types of bandages.	07
