GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – III • EXAMINATION – WINTER • 2013

		M. E SEMESTER – III • EXAMINATION – WINTER • 2013	
Subject code: 732502 Date: 28-11			
Subject Name: Technical Textile			
Time	Time: 10.30 am – 01.00 pm Total Marks: 70		
Instructions:			
		Attempt all questions.	
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	5.	Figures to the right mulcate full marks.	
Q.1	(a)	Enlist various methods of laying the fibers for making nonwovens. Write briefly on air laying and wet laying.	07
	(b)	Which processes are to be carried out and the technical textile products available from monofilament and tape/film?	07
Q.2	(a)	Write on distinctive features of the cards used for producing batt to be used for making nonwoven fabric.	07
	(b)	Which are the distinct features of needle punching process? OR	07
	(b)	With the help of a chart write on product and processes for making technical textiles.	07
Q.3	(a)	With neat sketch explain spun laying process for forming non woven fabrics.	07
	(b)	Write a short note on use of Glass fiber in various applications of technical textiles.	07
		OR	
Q.3	(a)	Which are the considerations for selecting particular fabric design for solid-liquid filter fabrics?	07
	(b)	Write short note on following (i) Stitch Bonding (ii) Hydroentangelment	07
Q.4	(a)	With reference to water proof breathable fabric, write on hydrophilic coating as one of the processes. Also write on ways of applying coating to the fabric for the same purpose.	07
	(b)	Explain cleaning mechanism with reference to reverse air and pulse jet	07
		cleaning. OR	
Q.4		Write in detail on use of geotextiles for separation purposes.	14
Q.5	(a)	Write a short note on face masks and antimicrobial dressing.	07
Q.3	(a) (b)	Write a short note on various applications of protective textiles in defense. OR	07 07
Q.5	(a)	Write in detail on use of agrotextiles for various types of nets.	07
	(b)	Write briefly on application of textile as medical implants.	07
