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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VI (NEW) EXAMINATION - WINTER 2018** 

Subject Code:2162904 Date:			20/11/2018	
Subj	Subject Name:Technical Textile-I			
Time: 02:30 PM TO 05:00 PM Total Ma			s: 70	
Instru	ctions			
		Attempt all questions.		
		Make suitable assumptions wherever necessary.		
	3. I	Figures to the right indicate full marks.		
Q.1	(a)	Define the term technical textiles. List their different segment.	03	
	<b>(b)</b>	Give the classification of nonwovens.	04	
	(c)	Explain the principle of needle punching with a neat sketch.	07	
Q.2	(a)	State various applications of agrotech.	03	
	<b>(b)</b>	Explain how the dry laid webs are manufactured with a neat sketch.	04	
	(c)	Compare and contrast the process of coating and laminating processes.  OR	07	
	(c)	Write in short on various types of glass fiber and their applications.	07	
Q.3	(a)	How do technical textiles differ from conventional textiles?	03	
	<b>(b)</b>	* *	04	
	(a)	civil engineering. Describe use of synthetic fibres in technical textile.	07	
	(c)	Discuss the applications of knitted technical fabrics in detail. <b>OR</b>	U/	
Q.3	(a)		03	
Q.J	(b)		03	
	(c)	Explain the manufacturing of melt blown web with a neat sketch.	07	
Q.4		1	03	
	(b)		04	
	(c)	Write a brief note on "Wet Processing of Technical Textiles"  OR	07	
Q.4	(a)	Write on the essentials of Heat setting finishing.	03	
	<b>(b)</b>	Discuss the factors affecting the effectiveness of coating material in a	04	
		given fabric.		
	(c)	Explain how dry powder coating is done to obtain coated Fabrics with e neat sketch.	07	
Q.5	(a)	State various applications of nonwoven medical textiles.	03	
	<b>(b)</b>		04	
	<b>(c)</b>	Write a brief note on "Stitch Bonded Nonwovens".	07	
o -	, .	OR		
Q.5		State the advantages of Coating.	03	
	<b>(b)</b>	<u> </u>	04	
	(c)	Write a brief note on "Textile Reinforced Composites".	07	

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