Sea	t No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER III (NEW) – EXAMINATION – WINTER-2016	
Su	bject	Code: 2732502 Date: 25/10/20	16
Tir	ne:02	Name: Technical Textile 2:30 pm to 05:00 pm Total Marks: 7 ons: Attempt all questions.	<b>70</b>
	2.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1		With reference to performance of waterproof breathable fabrics write in detail on following:  (i) Water vapor resistance of fabric.  (ii) Water vapor permeability against vapor pressure difference  (iii) Water vapor permeability of membranes under dry and wet condition.	14
Q.2	(a)	Which are the considerations for selecting particular fabric design for solid-liquid	0'
	<b>(b)</b>	filter fabrics? With reference to surgical apparel write on:  (i) Factors affecting permeability  (ii) Factors affecting capillary absorption.  OR	0′
	<b>(b)</b>	Write a short note on use of Glass fiber in various applications of technical textiles.	0'
Q.3	(a)	Which parameters are to be considered while selecting the fabric for use as dust collectors?	0′
	<b>(b)</b>	Write in detail on production process of making SMS fabric. What are different applications of the same?	0'
0.3	( )	OR	O.
Q.3	(a) (b)	Write in detail on application of nano fibers in various uses of technical textiles. Write short note on recent developments in stitch bonding.	0′ 0′
Q.4	(a) (b)	Write in detail any three main methods of characterization of nonwoven fabrics. Write a short note on Randowebber.  OR	0' 0'
Q.4	(a) (b)	What are different mechanical properties to be considered while selecting fabric for producing textile based geo synthetics?  Write in detail on various parameters of needles to be used for needle punching.	0':
Q.5	(a) (b)	Write a short note on face masks and antimicrobial dressing.  Write a short note on various applications of protective textiles in defense.	0'.

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Q.5 (a) Write in detail on use of agrotextiles for various types of nets.(b) Write briefly on application of textile as medical implants.

OR

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