Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER IV (NEW) EXAMINATION – SUMMER 2017

	•	Code: 2742501 D Name: Advance Topics in Textile Manufacturing	Date:03/05/2017	
		otal Marks:	al Marks: 70	
Ins	truction 1. 2. 3.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	and integrated processes. Define the smart textiles and its applications.		07 07
Q.2	(b) (a)			07 07
	 (b) In how many categories the textile product design can be classified? Write detail on total design approach and incremental design. OR 			07
	(b)	Discuss in detail heat balance and heat loss with reference to thermal conductivi of textile materials.		07
Q.3	(a)	Write in detail on diffusion process with reference to water vapour through textiles.	r transmission	07
	(b)	Which factors contribute to sensorial comfort? OR		07
Q.3		-		14
Q.4		OR What are the technologies available for the production of nano textiles? Write in detail on any three nano enabled functionalities of textile. OR		14
Q.4		-		14
Q.5	(a) (b)	Write briefly on application of new fibers in advanced textile comp Write in short on working principle of Phase Change Materials. OR		
Q.5	(a)			07
	(b)	Write a short review on Phase Change Materials as Smart Textiles		07
