

Subject Code: 2183906

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Subject Name: INDUSTRIAL NANOTECHNOLOGY

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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VIII (NEW SYLLABUS) EXAMINATION- SUMMER 2018

Time: 10:30 AM to 01:00 PM Total Mar			
	- ,	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) (b) (c)	Define: Energy efficiency. What do you mean by Radiant Barrier? Explain role of nanotechnology in the field of food sector with various applications.	03 04 07
Q.2	(a) (b) (c)	Define: Sustainable Energy What do you mean by Lead Encapsulation? Explain role of nanotechnology in the field of Security and Defense.	03 04 07
	(c)	OR Explain role of nanotechnology in the field of Cosmetic and Health care	07
Q.3	(a) (b)	Define: Rebound Effect. What do you mean by hybrid wind and solar Energy?	03 04
	(c)	Write a short note on Carbon Foot Print. OR	07
Q.3	(a) (b)	What do you mean by Alternative Flue? What are the possibilities in the sector of transport to save Energy?	03 04
	(c)	Write a short note on Building design for energy efficiency.	07
Q.4	(a) (b) (c)	List the materials, which are suitable for fire protection. Write down various applications of Nano clays. Write a short note on Nano composite coatings in the vicinity of Nanotechnology.	03 04 07
Q.4	(a) (b)	OR Define: LEC cement Explain role of nanotechnology in construction especially in cement.	03 04
	(c)	Write a short note on Nano composite coatings in the vicinity of Nanotechnology.	07
Q.5	(a) (b)	Define: Nano economy Write down issues associate with Health & Safety with nanotechnology based product.	03 04
	(c)	Write a short note on Nano-Bank. OR	07
Q.5	(a) (b)	Define: LEED What do you mean by Commercialization of Nanotechnology?	03 04
	(c)	Write a short note on legal police issues and regulation in the vicinity of patent and trademark.	07
