## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VI • EXAMINATION – SUMMER 2013

Subject Code: 161302 Date: 27-Subject Name: Fundamentals of Air Pollution			)5-2013	
Time: 10.30 am - 01.00 pm  Total Marl			)	
111501 (1	1. A 2. N	Attempt all questions.  Make suitable assumptions wherever necessary.  Sigures to the right indicate full marks.		
Q.1	(a) (b)	Define Air Pollution and explain the sources of Air Pollutants.  Discuss the Effects of Particulate Matter on Human Health	07 07	
Q.2	(a) (b)	Discuss the Effects of Sulfur Dioxide on Plants and Vegetation.  Discuss Primary and secondary Meteorological Parameters which affects the Air Pollution.	07 07	
	(b)	OR Derive the lapse rate $dt/dz = 1^{0}C/100m$	07	
Q.3	(a) (b)	Describe the Stability Condition.  Discuss Plume behavior with respect to the Stability Condition.  OR	07 07	
Q.3	(a) (b)	Write short note on Temperature Inversion. Write short note on Maximum Mixing Depth (MMD).	07 07	
Q.4	(a) (b)	Write Short note on Heat island Effects. What is Isokinectic samplings discuss in Detail? OR	07 07	
Q.4 Q.4	(a) (b)	Write a short note on Ambient Air Quality standards. Write Short Note on High Volume Air Sampler	07 07	
Q.5	(a) (b)	Discuss the Effects of Carbone Monoxide on Plants and Vegetation.  Write down the applications of Wind Rose Diagram.  OR	07 07	
Q.5	(a) (b)	Discuss the Effects of Carbone Monoxide on Human Health. How to construct the Wind Rose Diagram?	07 07	

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