Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V EXAMINATION - WINTER 2015

Subject Code: 151305			
Ti	me: 1 tructi 1 2	t Name: Air Pollution & Control 10:30am to 1:00pm Total Marks: 70 ions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Give classification of air pollutant based on sources. List important meteorological parameter that influencing Air Pollution and explain any one in Detail.	07 07
Q.2	(a) (b)	What are the Greenhouse Gases? Explain the Phenomenon of melting ice & its effect on earth. Write a short note on Alternative Fuel.	07 07
	(0)	OR	07
	(b)	Explain A/F ratio in detail.	07
Q.3	(a) (b)	Define a wind rose. Explain the importance of wind roses in air pollution studies. Explain construction and working of electrostatic precipitators. OR	07 07
Q.3	(a) (b)	List out the methods for Odour control. Explain any three of them. Explain the heat island effect.	07 07
Q.4	(a) (b)	What is noise pollution? Describe sources of noise Pollution. What are the advantages of using CNG as a fuel? Does it affect engine performance? If so, how?	07 07
		OR	
Q.4	(a) (b)	Explain removal of sulphur from fuels. Explain NOx control by: A) Absorption by liquid. B) Catalytic reduction.	07 07
Q.5	(a) (b)	Explain the Inversion Of Atmosphere. Explain Briefly about Photochemical Smog & effects of the same. OR	07 07
Q.5	(a) (b)	What is 'Dry Adiabatic lapse rate' and the 'Environmental lapse rate'?. Plot and Explain. Write a detailed note on MMD.	07 07
