Seat No.: Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - WINTER • 2014

		Subject Code: 151305 Date: 08-12-2014 Subject Name: Air Pollution & Control	
	T	Time: 10.30 am - 01.00 pm Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain classification of air pollutant based on sources. Write a short note on Alternative Fuel.	07 07
Q.2	(a)(b)	List important meteorological parameter that influencing Air Pollution and explain any one in Detail. Describe the Effects of Air Pollution On Human, Vegetation and Materials. OR	07 07
	(b)	Explain A/F ratio in detail.	07
Q.3	(a) (b)	List out the methods for Odour control. Explain any three of them. Explain effects of Photochemical Smog. OR	07 07
Q.3	(a) (b)	Explain heat island effect. Explain the following atmospheric condition (A) Super-adiabatic (B) Sub-adiabatic	07 07
Q.4	(a)(b)	What are the advantages of using CNG as a fuel? Does it affect engine performance? If so, how? Explain removal of sulphur from fuels. OR	07 07
Q.4	(a) (b)	Explain merits and demerits of cyclone separator. What are the symptoms of acute and chronic poisoning by the Following pollutants on farm animals? (A) Fluorine (B) Arsenic (C) Lead	07 07
Q.5	(a)	Define a wind rose. Explain the importance of wind roses in air pollution studies.	07
	(b)	Explain the Inversion Of Atmosphere.	07
Q.5	(a)	OR Describe following Episodes in detail. (any two): (i) Meuse valley (ii) Donora (iii) London (iv) Bhopal (v) Los Angeles.	07
	(b)	Explain Absorption and Dispersion along with examples.	07
