Seat N	o.: Enrolment No	Enrolment No	
	GUJARAT TECHNOLOGICAL UNIVERSITY		
	BE - SEMESTER-V • EXAMINATION - WINTER 2013		
Subject Code: 151305 Date: 09-12-20		013	
Subje	Subject Name: Air Pollution and Control		
Time: 10.30 am - 01.00 pm Instructions: Total Marks		: 70	
	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 		
Q-1	(a) Give the classification of Air Pollutants and sources of air pollution.	07	
	(b) Describe the Effects of Air Pollution On Human, Vegetation and Materials.	07	
Q-2	(a) Explain following Episodes:(I) Meuse valley (ii) Donora (iii) London (iv) Bhopal (v) Los Angeles.	07	
	(b) Explain Absorption and Dispersion along with examples. OR	07	
	(b) Explain general characteristics of plumes.	07	
Q-3	(a) Explain A/F ratio in detail.	07	
	(b) Write a short note on emission reduction by engine design changes.	07	
	OR		
Q-3	(a) Write a short note on Alternative Fuel.	07	
	(b) Explain effects of Photochemical Smog.	07	
Q-4	(a) Define a wind rose. Explain the importance of wind roses in air pollution studies.	07	
	(b) Explain causes and control of Odour Problem.	07	
	OR		
Q-4	(a) What is noise pollution? Describe sources of noise pollution	07	
	(b) What is Maximum Mixing depth? How it is determined? What is its importance?	07	
Q-5	(a) Write a short note on Cyclone separator	07	
	(b)Write Short Notes on(A) Exhaust emissions(B) Crank-case emissions	07	
	OR		
Q-5	(a) Write a short note on electrostatic precipitators.	07	
	(b) Explain Limestone scrubbing for control of Sox.	07	
