Seat No.: _____

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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII EXAMINATION – WINTER 2015

			Date: 07/12/2015	
Subject Name: Air pollution Control and management Time: 10:30am to 1:00pm Total Marks: 7 Instructions:			0	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Discuss the ambient Air quality standards.	07	
	(b)	What is A/F ratio in auto mobile? Discuss pollutant generate from mobile source.	07	
Q.2	(a)	"Air pollution control management" Discuss in detail.	07	
	(b)	How engine design changes to reduce automobile pollution.	07	
		OR		
	(b)	Write short notes on Photochemical Oxidant.	07	
Q.3	(a)	Discuss thermodynamic and kinematics of sulfur Dioxide.	07	
	(b)	Explain catalytic convertor in detail.	07	
		OR		
Q.3	(a)	Discuss Alternative fuel to reduce air pollution due to automobile.	07	
	(b)	Explain flue gas desulphurization process.	07	
Q.4	(a)	Discuss selection criteria for particulate control equipment.	07	
	(b)	Discuss combustion control for NO _X .	07	
		OR		
Q.4	(a)	Discuss Double alkali method for scrubbing Sulfur dioxide.	07	
	(b)	Short notes on Gravity settler.	07	
Q.5	(a)	Write short notes on Cyclone separator with their principal, construction and working.	07	
	(b)	Short note on Bag filter. discuss it cleaning mechanism in detail.	07	
		OR		
Q.5	(a)	Write short notes on "Electrostatic Precipitator".	07	
	(b)	Enlist and explain control methods for gases and vapours.	07	
