Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - VIIth Semester–Examination – May/June- 2012

Subject code: 171302

Subject Name: Air Pollution Control and Management

Date:08/06/2012 **Time: 02:30 – 05:00 pm**

Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Discuss Ambient Air Quality and Emission Standards.	**07**
	(b)	What is A/F ratio in auto mobile? Discuss pollutant generate from mobile sources.	**07**
Q.2	**(a)**	Write short note on engine design change.	**07**
	(b)	Discuss short note on alternative fuels.	**07**
		OR	
	(b)	What is catalytic converters? Discuss in detail.	**07**
Q.3	**(a)**	Explain flue gas desulphurization processes.	**07**
	(b)	Discuss Single alkali scrubbing for control of Sulfur Dioxide.	**07**
		OR	
Q.3	**(a)**	Discuss Combustion control methods for Nitrogen Oxides.	**07**
	(b)	Discuss thermodynamics and kinetics of sulfur dioxide formation.	**07**
Q.4	**(a)**	Discuss selection criteria for particulate control equipment.	**07**
	(b)	Write a short note on Cyclone separator.	**07**
		OR	
Q.4	**(a)**	Write short note on thermodynamic of photochemical reactions.	**07**
	(b)	Discuss role of oxides of nitrogen in photo oxidation.	**07**
Q.5	**(a)**	Write a short note on Bag filters.	**07**
	(b)	Write a short note on Electrostatic precipitator.	**07**
		OR	
Q.5	**(a)**	Enlist and explain control methods for gases and vapours.	**07**
	(b)	Write short note on photo chemical smog.	**07**

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