Seat No.:	Enrolment No
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## GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER-VII (OLD) - EXAMINATION – SUMMER 2017	
Su	ıbied	et Code: 171302 Date: 02/05	5/2017
	•	ct Name: Air Pollution Control and Management	
	-	02:30 PM to 05:00 PM Total Mar	ks: 70
Ins	struct	ions:	
		1. Attempt all questions.	
		<ol> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>	
	•	J. Figures to the right material marks.	
<b>Q.1</b>	(a)	Discuss the ambient Air quality standards.	07
	(b)	Discuss Air pollution Control selection criteria.	07
<b>Q.2</b>	(a)	Define Air Pollution Index. What are the uses of Air pollution Indices?	07
	(b)	Write short notes on Emission Standard.	07
		OR	
	(b)	Write short notes on Photochemical Oxidant.	07
<b>Q.3</b>	(a)	Explain catalytic convertor in detail.	07
	(b)	How engine design changes to reduce automobile pollution.	07
		OR	
<b>Q.3</b>	(a)	What is A/F ratio in auto mobile? Discuss pollutant generate from mobile	07
		source.	
	(b)	Discuss Alternative fuel to reduce air pollution due to automobile.	07
<b>Q.4</b>	(a)	Discuss combustion control for NO <sub>X</sub> .	07
	(b)	Write short notes on Scrubber.	07
		OR	
<b>Q.4</b>	(a)	Discuss selection criteria for particulate control equipment.	07
	(b)	Write short notes on Cyclone separator with their principal, construction and	07
		working.	
Q.5	(a)	Short note on Bag filter. Discuss it cleaning mechanism in detail.	07
	(b)	Write short notes on "Electrostatic Precipitator".	07
		OR	
<b>Q.5</b>	(a)	Short notes on Gravity settler.	07
	(b)	Enlist and explain control methods for gases and vapors.	07
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