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GUJARAT TECHNOLOGICAL UNIVERSITY

		•	BE – SEMESTER V • EXAMINATION – WINTER - 2012	
Subject code: 151305 Date: 23-01-20				
Subje	ct N	Van	ne: Air Pollution & Control	
Time	: 02	:30	pm to 05:00 pm Total Marks: 70	
Instru	ıcti	ons	:	
			empt all questions.	
			ke suitable assumptions wherever necessary. ures to the right indicate full marks.	
	<i>J</i> .	rig	ares to the right indicate run marks.	
Q.1		(a) (b)	Explain the effects of Noise Pollution on Auditory & Circulatory system. Explain any four methods for control of Noise Pollution.	07 07
Q.2	((a)	Define following terms:	07
			(1) Air Pollution (2) Wind Rose (3) PAN (4) Scrubber(5) Heat Island (6) Bag Filter (7) Adsorption	
	((b)	Describe the causes of hydrocarbon emissions from SI engine. OR	07
	((b)	Explain Air Fuel Ratio & Compression Ratio.	07
Q.3		(a) (b)	Explain the effects of air pollution on animals & materials. What are the harmful effects of sulphur dioxide, carbon monoxide & hydrocarbons on human beings?	07 07
			OR	
Q.3	((a)	Give the brief classifications of Air Pollutants. Also explain the effects of Photochemical Smog.	07
	((b)	List out the methods for Odour control. Explain any three of them.	07
Q.4	((a)	Explain Limestone scrubbing for control of SOx.	07
	((b)	Explain NOx control by absorption by liquids. OR	07
Q.4		(a)	Explain NOx control by Modification Of Operating & Design Conditions.	07
Q.4	((b)	With neat sketch explain DCDA process.	07
Q.5		(a) (b)	Write a detailed note on MMD. With a neat sketch explain Venturi Scrubber. Also state merits & demerits of Scrubbers.	07 07
Q.5		(a)	OR Write a short note on electrostatic precipitators.	07
-	((b)	Explain the Inversion Of Atmosphere.	07
