GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VI(NEW) EXAMINATION – WINTER 2022

Subject Code:3163511   **Date:14-12-2022**
Subject Name:Air Pollution Contol - II
Time:02:30 PM TO 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.**
4. **Simple and non-programmable scientific calculators are allowed.**

			MARKS
Q.1	**(a)**	Describe photochemical modelling.	**03**
	(b)	Describe lean mixture.	**04**
	(c)	Explain Significant features of AERMOD.	**07**
Q.2	**(a)**	How Cl_2 can be controlled?	**03**
	(b)	Describe significant features of ISCST3.	**04**
	(c)	Explain in detail Alkalized Alumina Process.	**07**
		OR	
	(c)	Explain significance of CALINE4.	**07**
Q.3	**(a)**	Describe Receptor Modelling.	**03**
	(b)	Describe control of CO.	**04**
	(c)	Explain in detail Statistical and Physical Models.	**07**
		OR	
Q.3	**(a)**	Brief ISCST3.	**03**
	(b)	Describe rich mixture.	**04**
	(c)	Explain in detail working mechanism of Venturi Scrubber.	**07**
Q.4	**(a)**	Explain Significant features of CALINE.	**03**
	(b)	What is Rotary Combustion Engine?	**04**
	(c)	How emissions cane be reduced by changing fuel?	**07**
		OR	
Q.4	**(a)**	Brief CALPUF.	**03**
	(b)	How VOC'S can be controlled?	**04**
	(c)	Explain in detail adsorption tower.	**07**
Q.5	**(a)**	Brief Gaussian Plume Modelling.	**03**
	(b)	Describe Catalytic Converter.	**04**
	(c)	Explain in detail Absorption Tower.	**07**
		OR	
Q.5	**(a)**	What is IC Engine?	**03**
	(b)	Describe Stratified Charge Engine.	**04**
	(c)	How emissions can be reduced by process change?	**07**

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