

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2021****Subject Code:3153512****Date:17/12/2021****Subject Name:Air Pollution Control - I****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 Fumigation.	03
	(b) Which pollutants are classified into secondary pollutants?	04
	(c) Explain Sulphur dioxide as one of air pollutant.	07
Q.2	(a) Define Plume, PAN, Dust.	03
	(b) Describe Evaporative Emissions.	04
	(c) Explain Inversion in detail.	07
OR		
	(c) Describe in detail Wind Direction and Speed.	07
Q.3	(a) Describe Trapping.	03
	(b) List air pollutants which effects plants.	04
	(c) Explain in detail Sampling of Ozone.	07
OR		
Q.3	(a) Discuss sources of Chlorofluorocarbons.	03
	(b) Describe Catalytic Incineration.	04
	(c) How materials are affected by Air Pollution?	07
Q.4	(a) What are the sources of Hydrogen Fluoride?	03
	(b) Describe Air Injection System.	04
	(c) Explain in detail Sampling of Carbon Monoxide.	07
OR		
Q.4	(a) Discuss lapse rate.	03
	(b) Why Green Belt is required?	04
	(c) Explain Salient features of Ozone Depletion Rules.	07
Q.5	(a) Define sound, noise and Adiabatic Lapse Rate.	03
	(b) Describe working principle of Scrubber.	04
	(c) Explain in detail sampling of SO ₂ .	07
OR		
Q.5	(a) What are Natural pollutants?	03
	(b) Describe Mixing Height.	04
	(c) Explain Salient features of Air pollution Control Act.	07
