

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V(NEW) EXAMINATION – SUMMER 2022

Subject Code:3153512

Date:07/06/2022

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) Define mist, fog and smoke.	03
	(b) Describe Heat Island Effect.	04
	(c) Explain types of Plume Behaviour.	07
Q.2	(a) Describe Sources of odour.	03
	(b) Describe Primary Pollutants.	04
	(c) What is Indoor Air Pollution? Explain in detail.	07
OR		
	(c) Explain Flowchart for measurement of Sulphur Dioxide by Improved West and Gaeke method.	07
Q.3	(a) Brief Air Quality Index.	03
	(b) Describe Sound Pressure Level.	04
	(c) Explain Construction and working of Cyclone Separator.	07
OR		
Q.3	(a) What is the role of trees in Air Pollution Control?	03
	(b) Describe Line sources and Area sources.	04
	(c) How odour is measured?	07
Q.4	(a) Describe sources of Noise.	03
	(b) Explain effects of Air pollution on Animals.	04
	(c) Explain Construction and working of Bag Filter.	07
OR		
Q.4	(a) Describe Lapse rate and Inversion.	03
	(b) What are the Harmful effects of Noise?	04
	(c) Explain effects of Air pollution on Plants.	07
Q.5	(a) How Noise is measured?	03
	(b) Describe Principle for sampling Nitrogen Dioxide.	04
	(c) Explain Construction and working of Electrostatic Precipitator.	07
OR		
Q.5	(a) What are the effects of Air Pollution on Materials?	03
	(b) Describe Secondary Pollutants.	04
	(c) How Odour is controlled?	07
