Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- IV(NEW) EXAMINATION - SUMMER 2023 e:3140509 Date:07-07-2023

Subject Code:3140509 Date:0'
Subject Name:Pollution control & safety Management

Time:10:30 AM TO 01:00 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)	Give your view, How human being is impact on to the environment.	03
	(b)	Briefly explain various types of environmental pollution in general	04
	(c)	Short note on sources and causes of environmental pollution	07
	(a)	Give your thoughts about effect of pollution on environment	03
	(b)	Explain classification and properties of air pollutants	04
	(c)	Short note: Effect of air pollution on agriculture and economy OR	07
	(c)	Short note: Commonly used as air pollution control devices in industry and transportation	07
Q.3	(a)	Discuss government role and voluntary organizations in controlling pollution.	03
	(b)	Define fire triangle in detail.	04
	(c)	Explain cyclone separator with neat sketch.	07
		OR	
Q.3	(a)	Explain gravity settling chamber with neat sketch.	03
	(b)	Discuss sources and classification of water pollutants	04
	(c)	List out physico-chemical characterization of wastewater.	07
Q.4	(a)	Define terms: payment and wages act	03
	(b)	What are the methods of solid waste collection	04
	(c)	Design of sedimentation tanks and biological treatment processes OR	07
Q.4	(a)	Define terms : BOD and COD with its significance	03
	(b)	What do understand about MSDS? Explain.	04
	(c)	Discuss about methods of solid waste disposal	07
Q.5	(a)	Define energy audit and environment audit.	03
	(b)	What are various Hazard analysis techniques? Explain.	04
	(c)	Explain wastewater treatment processes	07
		OR	
Q.5	(a)	What are the basic concepts of safety audit?	03
	(b)	Discuss about Hazard and operability (HAZOP) studies.	04
	(c)	Short note: Various Cleaner production practices adopted by chemical industries	07
