Seat No: Enrollmo		ent No:	
500	PARUL UNIVERSITY		
	B.Tech. Winter 2022-23 Examination		
Semester: 7 Subject Code: 203103431 Subject Name: Environment Pollution Control and Safety Management		Date: 11-10-2022 Time: 10:30AM TO 1:00PM Total Marks: 60	
Instru	ctions:		
1. All o	questions are compulsory.		
	res to the right indicate full marks.		
	e suitable assumptions wherever necessary.		
4. Start	new question on new page.		
Q.1	Objective Type Questions -		(15)
•	1. What is an undesirable change in physical, chemical, or biological characteristics of air, land,		` /
	water, or soil due to the introduction of contaminants called?		
	a) Succession		
	b) Pollution		
	c) Conservation		
	d) Extinction		
	2. Which act was passed to protect and improve the quality of our env	ironment?	
	a) The Mental Healthcare Act		
	b) The Coal Mines Act		
	c) The National Sports University Act		
	d) Environment Protection Act		
	3. On what does the harmful effect of pollution depend on?		
	a) The concentration of pollutants and the organism		
	b) The concentration, duration of exposure to pollutants and the organ	ism	
	c) The concentration of pollutants and duration of exposure		
	d) The organism only		
	4. Which is the most widely used technique for removing particulate	matter'?	
	a) Loudspeakers		
	b) Growing trees		
	c) Electrostatic precipitator		
	d) Magnets		
	5. Why is CNG (Compressed Natural Gas) preferred over petrol?		
	a) Burns most efficiently		
	b) It is expensive		

\_ is a method of solid waste disposal?

13. What are wastes from homes, hospitals, offices, schools, stores, etc., that are collected and

14. Who utilizes the maximum amount of oxygen in the upstream of sewage discharge?

is NOT a Green House Gas

12. In LOPA, community response relates to \_\_\_\_\_

15. What is the reason for the increase in the BOD?

disposed of by the municipality called?

10. What do you understand by local toxicity and systematic toxicity?

9. Examples of Secondary pollutants.

> c) Burns less efficiently d) Can be adulterated

8. Define Risk.

11.Define HAZARD

7.

	<ul><li>C) What are the various entry routes for toxicants into the biological organisms? Explain.</li><li>D) What is Energy audit? Why it is important?</li></ul>	
Q.3	A) With a schematic diagram discuss the conventional treatment process of industrial wastewater	(07)
	B) What is Risk assessment? Explain the Fault tree analysis technique in detail, with meanings of different symbols used in it.	(08
	OR	
Q.4	<ul><li>B) Discuss 'Landfill method' for hazardous solid waste disposal.</li><li>A) State and explain the factors to be considered while doing Environment impact assessment (EIA).</li></ul>	(08 (07
	OR	
	<ul><li>A) Enlist the techniques used for hazard identification. Explain HAZOP method in detail.</li><li>B) How many types of cavitation processes are available? Describe the mechanism of degradation of organic pollutants using photo catalysis</li></ul>	(07 (08

A) Define the following terms in the context of Safe Industrial Practices: (1) Accident (2)

B) Explain the importance of Pollution Control & Safety management in Chemical Industries.

Answer the following questions. (Attempt any three)

Likelihood (3) Scenario.

**Q.2** 

**(15)**