Seat No:			Enrollment No:					
		PARUL UNIV						
		FACULTY OF ENGINEERI B.Tech. Winter 2022 -			Y			
•	1 ode: 30311510 ame: Chemist	ammation	Date: 25/01/2023 Time: 2:00 pm to 4:30 pm Total Marks: 60					
<ul><li>2. Figures</li><li>3. Make st</li></ul>	stions are comp to the right inc	licate full marks. tions wherever necessary.						
Q.1 Obje	ective Type (	Questions - (Fill in the blanks, o	ne wor	d answer, MCQ	2-not more than	(15)		
five	in case of MC	CQ) (All are compulsory) (Each	of one	mark)				
1.	What is an	undesirable change in physical,	chemi	cal, or biologica	al characteristics of			
	air, land, w	ater, or soil due to the introducti	on of	contaminants ca	ılled?			
	a.	Succession	c.	Conservation				
	b.	Pollution	d.	Extinction				
2.	Soil colloid	al particle shows the phenomen	a					
	a.	Plasticity	c.	Flocculation	on			
	b.	Adhesion and cohesion	d.	All of the	above			
3.	Permanent	hardness is caused due to						
	a.	Magnesium carbonate	c.	Magnesium b	icarbonate			
	b.	Magnesium sulphate	d.	All of the abo	ve			
4.	Separating.	From stratosphere is trans	ition z	one called the s	tratopause?			
5.	The pollutants that decomposable and manageable in nature are termed as -							
6.	What is the impact of air pollution on plants?							
	a.	Infection in the lungs	c.	Irritation in ey	yes			
	b.	Reduce growth and yield	d.	Deafening of	ears			
		of crops						
7.	In water tre	atment plant, zeolite process is	used to	remove the	of			
	water.							

8. What is  $PM_{2.5} \& PM_{10}$ 

	9.	water?	cmidren may be caused due	to defici	iency of which parameter in								
	10.	The yellowness of the Taj Mahal is an effect of											
	11.	Give full form of MPN											
	12.	2. From which phenomenon is the term 'Greenhouse effect' derived?											
		a.	That occurs in a	c.	That occurs in a greenhouse								
			boathouse										
		b.	That occurs in a blue	d.	That occurs in a house								
			house										
	13.	Ozone hole was	caused by chlorofluorocarbo	ns. (Tru	ne/False)								
	14. The ozone layer is present in												
	15.	CNG stands for											
Q.2	Q.2 Answer the following questions. (Attempt any three)												
	A) W	rite down Effects	s of Soil pollution.										
	B) W	What do you understand by Global warming? Explain in Brief.											
	C) Ex	xplain Sustainable	e Development										
	D) D	iscuss primary an	d secondary air pollution										
Q.3	A) W	ion with example.	(07)										
	B) Do	B) Describe any two-soil structure in detail.											
			OR										
	B) Di	) Discuss the effects & sources of Carbon monoxide, Particulate matter, Hydrocarbons											
Q.4	.4 A) Find out the pH of a mixture formed by mixing the following two solutions.												
	Sc	olution A: Volum	e 300ml, pH=7										
	Sc	olution B: Volum	e 700ml, pH=5										
			OR										
	A) Explain term Acidity of water sample. Describe the laboratory procedure for the												
	me	easurement of it.											
	B) W	rite down differe	nt types of Water parameters.			(08)							