B.Sc. Part-II Semester-III Examination ENVIRONMENTAL SCIENCE ENVIRONMENTAL CHEMISTRY

Time: Three Hours] [Maximum Marks: 80				
Not	e :	ALI	L questions are compulsory and questions 2 to 7 carry equal marks.	
1.	(A)	Fill	in the blanks:	
		(a)	Oxygen and are energy exchange elements.	1/2
			Potassium element comes under activators and	1/2
			LC ₅₀ test is used for measuringtoxicity.	1/2
			Mercury Poisoning causes disease.	1/2
	(B)	Cho		
		(e)	Solubility of gases in water depends upon	1/2
			(i) pH	
			(ii) Temperature	
			(iii) Humidity.	
		(f)	All enzymes are:	1/2
			(i) Proteins	
			(ii) Fats	
			(iii) Lipids.	
		(g)	DDT is a:	1/2
			(i) Pesticide	
			(ii) Pharma Drug	
		4.	(iii) Hormone.	.,
		(h)	Oxygen and Hydrogen are:	1/2
			(i) Energy exchange elements	
			(ii) Activators and inhibitors	
	(0)		(iii) Trace elements.	
	(C)		swer in one sentence each:	,
			What is first law of thermodynamics.	1
		(ii)	What is the long form of BHC?	1
		(iii)	What is OTEC ?	1
		(iv)	Define enzymes.	1
2.	Exp		n brief:	
	(a)	Wit	th the help of suitable example describe second law of thermodynamics.	4
	(b)	-	plain saturated hydrocarbons with suitable example.	4
	(c)	Aci	d base reactions.	4
			OR	
WP	Z82	66	1	(Contd.)

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Explain:

(s) Chemical structure of water

(x) Analysis of Pb from water.

(u) Distribution of mercury.

(t) Any four physico-chemical properties of water.

(v) Chemical speciation of heavy metal Hg.

6.

7.

OR

(w) Describe various species of Pb present in water, air and soil. Give its sources...

Describe working of solar collector and photovoltaic cell with diagram.

Describe concept, mechanism and significance of wind energy.