Question Paper Code: 49125

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

Elective

Civil Engineering

14UCE925- ENVIROMENTAL SCIENCE AND ENGINEERING

(Common to all branches)

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks **Answer ALL Questions** PART A - $(10 \times 1 = 10 \text{ Marks})$ The system of interaction of organisms with the surrounding is called (c) Environment (a) Ecology (b) Ecosystem (d) Biodiversity 2. What is a another major factor for the loss of water (a) Industrial wastage (b) Evaporation (c) Human excistence (d)Domestic wastage 3. The type of chemical bond in water is (b) Electrovalent bond (c) Hydrogen bond (a) Covalent bond (d) Ionic bond The pressure exerted by the evaporated molecules on the surface of water is called (a) Vapour pressure (b) Hydrostatic pressure (c) Vacuum pressure (d) Atmospheric pressure

(b) Earth quake

(d) Burning of plastics

5. What are major issues that contribute for global warming

(a) Green house

(c) Carbon mono-oxide

6.	Ozone layer depletion is mainly due to					
	(a) NO _x	(b) $CO_X \& SO_X$	(c) CFC's	(d) All of the above		
7.	seeks to reduce r Pollution is as its sour		emistry on the environ	nment by preventing		
	(a) Biochemistry		(b) Green chemistr	у		
	(c) Environmental	chemistry	(d) Analytical chem	nistry		
8.	Along which chemical	makes a radionuclide	es much more danger	ously radio active		
9.	(a) Uranium What is the key elemen	(b) Plutonium nt of environmental in	•	(d)None of these		
	(a) Skimming	(b) Settling	(c) Priming	(d) Scoping		
10.	Which of the following	g is one of the benefit	s of environmental im	pact assessment		
	(a) Mitigating		(b) obtaining enviro	nmental statements		
	(c) Maintenance of	biodiversity	(d) Screening			
	PART - B (5 x $2 = 10 \text{ Marks}$)					
11.	What are autotrophs an	d heterotrophs?				
12.	2. What is boiling point of water?					
13.	3. Point out few threats that cause biodiversity losses					
14.	14. Why nuclear hazards are so dangerous?					
15.	15. What is meant by environmental impact assessment?					
	PART - C (5 x $16 = 80 \text{ Marks}$)					
16.	(a) Explain about ener	gy flow in the ecosys	stem.	(16)		
		O	r			
	(b) Explain in detail about the concept of sustainable development .					
17.	(a) What do you under	rstand by water as a c	dispersing medium.	(16)		

(b) Explain the objectives of Environmental quality analysis and discuss some of	the		
policies which improve Environmental Sustainability	(16)		
18. (a) (i) List the Country level issues on current environment?(ii) Describe about global warming.			
Or			
(b) Discuss in detail about the impacts of solid waste disposal	(16)		
19. (a) Describe the significance of cleaner technologies and factors influencing to			
Or			
(b) Classify the waste minimization techniques in detail?	(16)		
20. (a) Explain in detail about the pollution control boards and pollution control act	s (16)		
Or			
(b) Explain about polluter –pays principle.	(16)		