Reg. No.:					

Question Paper Code: 49125

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Elective

Civil Engineering

14UCE925- ENVIROMENTAL SCIENCE AND ENGINEERING

(Common to all branches)

(Regulation 2014)

		(Regulati	011 2014)				
Du	ration: Three hours			Maximum: 100 Marks			
		Answer AL	L Questions				
	P	ART A - (10 x	x 1 = 10 Marl	(s)			
1.	Freshwater ecosystem covers percentage of the earth's surface						
	(a) 0.5 (b) 0.6	(c) 0.7	(d) 0.8				
2.	What is a another major factor for the loss of water						
	(a) Industrial wastage		(b) Evaporati				
	(c) Human excistence	•	(d) Domestic	wastage			
3.	At present National Ambient pollutants	Air Quality st	andards exis	t for how much number criteria			
	(a) 8 (b) 1	1	(c) 6	(d) None of the above			
4.	When a source of pollution cannot be identified then it is named as						
	(a) Point source		(b) Nonspe	cific source			
	(c) Nonpoint source		(d) Unidentified source				
5.	What are major issues that co	ontribute for g	lobal warmin	g			

(b) Earth quake

(d) Burning of plastics

(a) Green house

(c) Carbon mono-oxide

sulfur oxides	200 02102 101 0 2281111	icant factor for all for	nis ponutunts excep	<i>5</i> . 101		
(a) Industrial sect	tor (b) Medical sec	etor (c) Transportatio	n sector (d) All th	ne above		
		chemistry on the envi	ronment by preven	ting		
(a) Biochemistry		(b) Green chemistry				
· /	•	` '	(d) Analytical chemistry es much more dangerously radio active			
(a) Uranium	(b) Plutonium	(c) Phosphorus	(d)None of the	ese		
Which are the two atr	nospheric layers sho	ow decrease in temper	ature with increase	in		
altitude						
-	-	-	(b) Mesosphere and thermosphere(d) All the above			
Section provide	es emission standard	s for automobiles				
(a) 18	(b) 19	(c) 20	(d) 16			
	PART - B (5	x 2 = 10 Marks)				
List the functions of p	roducers, consumer	s and decomposers in	ecology			
What is boiling point	of water?					
Point out few threats t	hat cause biodivers	ity losses				
Why nuclear hazards	are so dangerous?					
Define EIA?						
	PART - C (5)	x 16 = 80 Marks)				
(a) Classify and expla	ain the different type	es of ecosystem with i	ts components	(16)		
		Or				
(b) Explain in detail	about the concept o	f sustainable developr	ment .	(16)		
	(a) Industrial sector————————————————————————————————————	sulfur oxides (a) Industrial sector (b) Medical sector—seeks to reduce negative impact of Pollution is as its source (a) Biochemistry (c) Environmental chemistry Along which chemical makes a radionucle (a) Uranium (b) Plutonium Which are the two atmospheric layers should altitude (a) Stratosphere and mesosphere (c) Troposphere and mesosphere Section———provides emission standard (a) 18 (b) 19 PART - B (5) List the functions of producers, consumer What is boiling point of water? Point out few threats that cause biodiversity why nuclear hazards are so dangerous? Define EIA? PART - C (5) (a) Classify and explain the different types.	sulfur oxides (a) Industrial sector (b) Medical sector (c) Transportation————————————————————————————————————	sulfur oxides (a) Industrial sector (b) Medical sector (c) Transportation sector (d) All the formula of the environment by prevention is as its source (a) Biochemistry (b) Green chemistry (c) Environmental chemistry (d) Analytical chemistry Along which chemical makes a radionuclides much more dangerously radio active (a) Uranium (b) Plutonium (c) Phosphorus (d) None of the Which are the two atmospheric layers show decrease in temperature with increase altitude (a) Stratosphere and mesosphere (b) Mesosphere and thermosphere (c) Troposphere and mesosphere (d) All the above Section provides emission standards for automobiles (a) 18 (b) 19 (c) 20 (d) 16 PART - B (5 x 2 = 10 Marks) List the functions of producers, consumers and decomposers in ecology What is boiling point of water? Point out few threats that cause biodiversity losses Why nuclear hazards are so dangerous? Define EIA? PART - C (5 x 16 = 80 Marks) (a) Classify and explain the different types of ecosystem with its components		

17. (a) Explain in detail about chemistry ,physics and biology properties of water, air,	land (16)				
Or					
(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?	(10)				
(ii) Describe about global warming.					
Or					
(b) Discuss in detail about the impacts of solid waste disposal	(16)				
19. (a) Principles of physics, chemistry and biology in engineering interventions such as waste treatment?	s (16)				
Or					
(b) Classify the waste minimization techniques in detail?	(16)				
20. (a) Prepare a detailed report on role of NGO's in scaling up Environmental Managen issues Or	nent (16)				
(b) Explain about polluter –pays principle.	(16)				