Reg. No.:					

Question Paper Code: 49016

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

Elective

Civil Engineering

14UCE925- ENVIROMENTAL SCIENCE AND ENGINEERING

(Common to all branches)

		(Reg	ulation 2014	4)			
Du	ration: Three hours	Answer	· ALL Quest		ım: 100 Marks		
		PARTA - ($(10 \times 1 = 10)$	Marks)			
1. The system of interaction of organisms with the surrounding is called							
	(a) Ecology	(b) Ecosyster	n (c) Environment	(d) Biodiversity		
2.	What is a another m (a) Industrial wa (c) Human excis	astage	(b) Evapo				
3.	At present National pollutants (a) 8	Ambient Air Quali (b) 11	ity standards (c) 6				
4.	What is the process	that allows the par	rticles to sett	le down by help of	gravity		
(a) Screening and grit removal(c) Sludge processing		• • •	(b) Rapid mixing(d) Primary sedimentation				
5.	What are major issues that contribute for global warming						

(b) Earth quake

(d) Burning of plastics

(a)Green house

(c)Carbon mono-oxide

6.	Which sector in U.S accounts for a significant factor for all forms pollutants except for sulfur oxides						
	(a) Industrial sector	(b) Medical sector	or (c) Transportation	sector (d) A	ll the above		
7. Waste generated from electronic industry is called							
	(a) Bio-medical wast	e (b) e-waste	(c) Solid waste	(d) Liquid v	vaste		
8.	Along which chemical m	akes a radionuclid	les much more dange	rously radio a	ctive		
	(a) Uranium	(b) Plutonium	(c) Phosphorus	(d)None of	these		
9.	. Which are the two atmospheric layers show decrease in temperature with increase						
	altitude						
	(a) Stratosphere and r(c) Troposphere and r	-	(b) Mesosphere and thermosphere(d) All the above				
10.	According to which act delineates two of the wastes						
	(a) MSW	(b) RCRA	(c) Materials recove	ery act (d) N	IIMBY		
		PART - B (5 x	2 = 10 Marks)				
11.	Write the structure of des	ert ecosystem wit	h an example?				
12.	What is boiling point of v	water?					
13.	What do you understand	by Soil Pollution?					
14.	Why nuclear hazards are	so dangerous?					
15.	What is meant by environ	nmental impact ass	sessment?				
		PART - C (5 x	16 = 80 Marks)				
16.	(a) Describe energy flow	and material cycl	ling in ecosystem.		(16)		
		C)r				
	(b) Explain in detail abo	out the concept of	sustainable developm	ent.	(16)		

17. (a) Explain in detail about chemistry ,physics and biology properties of water, air,	, land (16)
Or	
(b) Explain the stress on the chemistry, physical and biological impact on water, air a land?	and (16)
18. (a) (i) List the Country level issues on current environment? (ii) Describe about global warming.	(10) (6)
Or	
(b) What are the Hazardous waste and biomedical waste ,air pollution due to indust and vehicles ?	ries (16)
19. (a) Principles of physics, chemistry and biology in engineering interventions such a waste treatment?	ns (16)
Or	
(b) Explain in detail about the waste minimization techniques?	(16)
20. (a) Explain in detail about the pollution control boards and pollution control acts.	(16)
Or	
(b) Explain about polluter –pays principle.	(16)