Reg. No.:					

Question Paper Code: 59175

B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

Open elective

Computer Science and Engineering

15UCE975 - ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to ECE, EEE, EIE, MECH,IT, Chemical, BME, AGRICULTURE) (Regulation 2015)

Duration: 1.15 hrs Maximum: 30 Marks

PART A - $(6 \times 1 = 6 \text{ Marks})$

	(An	swer any six of the f	following questions)				
1.	The outer portion of Heterosphere is called as						
	(a) Thermosphere	(b) Ionosphere	(c) Tropopause	(d) Lithospher	e		
2.	Thickness of Stratospher	re is			CO1- R		
	(a) 1-18kms	(b) 18-50kms	(c) 50-85kms	(d) 85-500kms			
3.	In safe drinking water the turbidity value is between						
	(a) 15 to 25NTU	(b) 10 to 15 NTU	(c) 10 to 25 NTU	(d) 15 to 20 N	ITU		
4.	Permanent Hardness is caused due to the presence of						
	(a) Chlorides& Sulphide	s (b) Hydrogen ion	s (c) Organic matte	er (d) Acidity			
5.	The size of dust particle	s is			CO3- R		
	(a) 0.5to 100 µm	(b) 1to 150 μm	(c) 1.5to 200 μm	(d) 1to 200	μm		
6.	In India the daily per catowns is	pita generation of mu	unicipal solid waste in	small	CO3- R		
	(a) Paper	(b) Paper and pulp	(c) Pulp	(d) Dust			
7.	Which series represent the environmental management standards?						
	(a) ISO 9001	(b) ISO 50001	(c) ISO 14000	(d) ISO 4000	1		
3.	The BOD removal effici	ency in Activated slu	dge process is about_		CO4- R		
9.	(a)70-80% Which factors affecting of	(b) 60-98% efficiency of membra		(d) 60-80%	CO5- R		

	(a) Total dissolved	(b) Viscosity	(c) Density	(d) Kine	(d) Kinematic viscosi			
10.	Constitution empowers	ers the parliament to make laws regarding CO5-R						
	(a) Article 48-A	(b) Article 51-A	(c) Article 253	(d) Artic				
	PART – B (3 x 8= 24 Marks)							
(Answer any three of the following questions)								
11.	Explain in detail about		CO1- U	(8)				
12.	. Explain in detail about dispersion of air pollutants with neat sketches.					(8)		
13.	Explain detail about hazardous waste management.					(8)		
14.	. Explain in detail about different types of clean technologies.				CO4- U	(8)		
15.	. Explain in detail about water act 1974 and air act 1981.				CO5- U	(8)		