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Question Paper Code: 52007

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Second Semester

Civil Engineering

15UCY207 - ENVIRONMENTAL SCIENCE

(Common to ALL branches)

(Regulation 2015)

Dur	ation: Three hours		N	Maximum: 100 Marks	
		Answer ALL	Questions		
		PART A - (10 x 1	= 10 Marks)		
1.	The primary produces	are	CO1- R		
	(a) Chlorophyll conta	ining trees and plants	es and plants (b) Herbivores		
	(c) Carnivores		(d) Bacteria		
2.	Genetic variation between	ween distinct population	of the same species is kn	own as CO1- U	
	(a) Species diversity	(b) Ecosystem diversity	y (c) Genetic diversity	(d) Food web	
3.	Which of the following	ng is an air pollutant?		CO2- U	
	(a) Nitrogen	(b) Carbon monoxide	(c) Carbon dioxide	(d) Oxygen	
4.	High level radioactive	e waste can be managed	by	CO2- U	
	(a) Composting	(b) Store indefinitely	(c) Incineration	(d) Neutralization	
5.	Fossil fuel based patte	ern of energy use is havi	ng the problem of	CO3-R	
	(a) limited natural reserve (b)		(b) Pollution		
	(c) Lack of term susta	ainability	(d) All the above		
6.	Identify the non-renev	wable source of energy f	rom the following	CO3- R	

(c) Tidal

(d) Coal

(a) Solar

(b) Wind

7.	The	primary cause	of acid rain arour	nd the wo	orld is				CO	4- R
	(a) (Carbon monoxid	de (b) Carbon	dioxide	(c) Sulphu	ır dioxide	(d) Oxyge	en	
8.	Firs	t of the major	environmental a	ct protec	tion act to b	oe promulga	ited in	India	CO	4- R
	(a) T	The water act	(b) The air act	(c) The	environmer	nt act (d)	Noise 1	pollutio	n act	
9.	The	average life exp	pectancy around	the world	d is currently	7			CC)5-R
	(a) I	Decreasing	(b) Increasing	g	(c) Stabilizi	ing	(d)	No Cha	angin	ıg
10.	Dec	laration of hum	an rights by the U	J nited na	tion was est	ablished in			CO	5- R
	(a) 1	1948	(b) 1950		(c) 1955		(d)	1946		
			PART -	-B (5 x 2	2= 10 Marks)				
11.	Def	ine Food chain.						C	CO1-	R
12.	. List the sources of soil pollution.						CO2-	O2- R		
13.	6. Identify the demerits of tidal energy.							CO3	O3-Ana	
14.	Define sustainable development.						CO4-	O4- R		
15.	5. Define zero population growth.						CO5- R			
			PART	$\Gamma - C (5)$	x 16= 80 Ma	rks)				
16.	(a)	(i) Describe th	ne structure and f	unction o	of an grass la	and ecosyste	m.	CO1-	U	(8)
	` /	(ii) Explain	in situ and ex of Biodiversity.		•	•		CO1-	U	(8)
				Or						
	(b)	(i) Discuss the	process ecologic	cal succes	ssion.			CO1-	U	(8)
		(ii) Discuss the biodiversit	e status of India a y.	is a mega	diversity na	ation of		CO1-	U	(8)
17.	(a)	` '	various methods ous solid wastes.	s involve	d in disposal	of municip	al	CO2-	U	(8)
		(ii) Discuss the	role of individua	al in cons	servation of	natural reso	urces.	CO2-	U	(8)

Or

	(b)	(i) Describe the sources and effects of water pollution.	CO2- U	(8)
		(ii) Discuss the effects and preventive measures of flood and landslides.	CO2- U	(8)
18.	(a)	(i) How is wind energy used to generate electricity? Give its merits and demerits.	CO3- U	(8)
		(ii) Discuss the major measures to attain sustainability.	CO3- U	(8)
		Or		
	(b)	(i) Discuss the term green power with an example	CO3- U	(8)
		(ii) Discuss different methods of harvesting of solar power.	CO3- U	(8)
19.	(a)	(i) Discuss the major issues related to resettlement and rehabilitation of the people.	CO4- U	(8)
		(ii) Discuss the effects and control measures of global warming.	CO4- U	(8)
		Or		
	(b)	(i) Describe any four waste land reclamation practices.	CO4- U	(8)
		(ii) Analyze the salient features and drawbacks of Wild life (protection) act 1972.	CO4- U	(8)
20.	(a)	(i) Discuss the role of IT on environment and human health.	CO5- U	(8)
		(ii) Write symptoms and control measures of HIV/AIDS .	CO5- U	(8)
		Or		
	(b)	(i) Explain the consequences of population explosion on environment.	CO5- U	(8)
		(ii) Discuss the objective and elements of value education.	CO5- U	(8)