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## **Question Paper Code: 52007**

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

Second Semester

Civil Engineering

## 15UCY207 - ENVIRONMENTAL SCIENCE

(Common to ALL branches)

(Regulation 2015)

Dur	ation: Three hours			Iaximum: 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	(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	of acid rain arour	nd the wo	orld is				CO	4- R
	(a) (	) Carbon monoxide (b) Carbon dioxide (c) Sulphur dioxide (d) O		) Oxyge	en					
8.	Firs was	t of the major of	environmental a	et protec	tion act to b	e promulg	ated in	India	CO	4- R
	(a) T	The water act	(b) The air act	(c) The	environmen	nt act (d)	Noise 1	pollutio	n act	
9.	The	average life exp	ectancy around	the world	l is currently	7			CC	)5-R
	(a) I	Decreasing	(b) Increasing	g	(c) Stabilizi	ing	(d)	No Cha	angin	ıg
10.	Dec	laration of huma	an rights by the U	J <b>nited na</b>	tion was est	ablished in			CO	5- R
	(a) 1	948	(b) 1950		(c) 1955		(d)	1946		
			PART -	-B (5 x 2	2= 10 Marks	)				
11.	Def	ine Food chain.						(	CO1-	R
12.	List the sources of soil pollution.						CO2-	)2- R		
13.	6. Identify the demerits of tidal energy.							CO3	3-Ana	
14.	Define sustainable development.						CO4-	)4- R		
15.	5. Define zero population growth.						CO5-	R		
			PART	$\Gamma - C (5)$	к 16= 80 Ма	rks)				
16.	(a)	(i) Describe th	e structure and f	unction o	of an grass la	and ecosyst	em.	CO1-	U	(8)
	` ′		in situ and ex f Biodiversity.	x situ co	onservation	methodolo	ogy in	CO1-	U	(8)
				Or						
	(b)	(i) Discuss the	process ecologic	cal succes	ssion.			CO1-	U	(8)
		(ii) Discuss the biodiversity	e status of India a y.	ıs a mega	diversity na	ation of		CO1-	U	(8)
17.	(a)	` '	various methods us solid wastes.	s involve	d in disposal	of municip	oal	CO2-	U	(8)
		(ii) Discuss the	role of individua	al in cons	servation of	natural resc	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)