Question Paper Code | 12773

B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024
Second Semester
Civil Engineering
(Common to All Branches)
20BSCY201 - ENVIRONMENTAL SCIENCE AND ENGINEERING
Regulations - 2020

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks	K-Level	CO
1.	Differentiate between food chain and food web.	2	K2	CO1
2.	List the hotspots of biodiversity in India.	2	K1	CO1
3.	State thermal pollution.	2	K1	CO2
4.	Indicate the causes of the earthquake.	2	K2	CO2
5.	Define desertification.	2	K1	CO3
6.	Identify the ecological benefits of forest.	2	K2	CO3
7.	Define the term Environmental Ethics.	2	K1	CO4
8.	Relate resettlement and rehabilitation.	2	K2	CO4
9.	Illustrate NIMBY syndrome.	2	K2	CO5
10.	Define sustainable development.	2	K1	CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Describe the structure and functional components of an ecosystem.	13	K2	CO1
		OR			
	b)	Explain in-situ and ex-situ conservation of biodiversity along with their merits and limitations.	13	K2	CO1
12.	a)	Explain the causes, effects and control measures of air pollution.	13	K2	CO2
		OR			
	b)	Illustrate the various natural calamities and explain any one in detail.	13	K2	CO2
13.	a)	State deforestation. Explain the various causes and consequences of deforestation.	13	K2	CO3
		OR			
	b)	Explain the role of an individual in the conservation of natural resources.	13	K2	CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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| 14. | a) | Discuss the causes and effects of global warming. | 13 | K2 | CO4 |

<div align="center">**OR**</div>

| | b) | Illustrate the causes and effects of Acid rain. | 13 | K2 | CO4 |

| 15. | a) | State AIDS. Discuss briefly on the modes of transmission of HIV and how it can be prevented. | 13 | K2 | CO5 |

<div align="center">**OR**</div>

| | b) i) | Define sustainable development. Explain the measures to attain sustainability. | 7 | K2 | CO5 |
| | ii) | Illustrate the causes and characteristics of population growth. | 6 | K2 | CO5 |

PART - C (1 × 15 = 15 Marks)

| 16. | a) | Demonstrate the method of Rainwater harvesting and Watershed management. | 15 | K2 | CO4 |

<div align="center">**OR**</div>

| | b) i) | Define value education. Discuss the concept of value education with the help of suitable examples. | 8 | K2 | CO5 |
| | ii) | Illustrate the population variation among nations based on age. | 7 | K2 | CO5 |