

Total No. of Questions: 6

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Enrollment No.....



Faculty of Science / Engineering
End Sem Examination May-2024

CA3AE02 Environmental Science

Programme: BCA / BCA- Branch/Specialisation: Computer
MCA (Integrated) Application

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. What year did the concept of sustainability first appear? **1**
(a) 1992 (b) 1978 (c) 1980 (d) 1987
- ii. The United Nations has established a total Sustainable Development Goals (SDGs)- **1**
(a) 15 (b) 16 (c) 17 (d) 18
- iii. Based on what the Kyoto Protocol set emission reduction targets for the group of greenhouse gases? **1**
(a) Hydrogen equivalents (b) Carbon dioxide equivalents
(c) Oxygen equivalents (d) Nitrogen equivalents
- iv. Good ozone is found in the- **1**
(a) Stratosphere (b) Ionosphere
(c) Troposphere (d) Mesosphere
- v. Any contaminated components that seep into the soil, filtration, and are transferred into the underground reservoir are referred to as- **1**
(a) Water Pollution (b) Noise Pollution
(c) Land Contamination (d) Air pollution
- vi. Which of the following are the primary causes of water pollution? **1**
(a) Plants (b) Animals
(c) Human activities (d) None of these
- vii. The natural place of an organism or community is known as- **1**
(a) Biome (b) Niche (c) Habitat (d) Zonation
- viii. Which organism get energy by eating dead organism? **1**
(a) Herbivorous (b) Carnivores
(c) Omnivores (d) Decomposers

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- ix. Which of the following is not a primary pollutant? **1**
(a) Carbon Dioxide (b) Nitrous Oxide
(c) Hydrocarbons (d) Sulfuric acid
- x. Hybrid vehicle is either propelled by ICE or battery- **1**
(a) Parallel (b) Series (c) Split (d) Mild
- Q.2 i. What is full form of three E sustainable developments? **2**
ii. What is the concept of mulching in organic farming? **3**
iii. Explain principles of sustainable development. **5**
OR iv. Explain multidisciplinary nature of environmental studies. **5**
- Q.3 i. Define advantage and disadvantage of urbanization. **3**
ii. Define solid waste and functional element of waste management system. **7**
OR iii. How green house gases affect the climate and harm the human health and nature? **7**
- Q.4 i. What is the theory of soil degradation? **3**
ii. Define water pollution. How can we conserve water resources? **7**
OR iii. What is the scientific concept of soil salinization? What is the most common cause of soil salinization? **7**
- Q.5 i. Explain food chain and food web with neat sketch diagram. **4**
ii. Explain various functions of ecosystem. **6**
OR iii. Explain acid rain its effects and control. **6**
- Q.6 Attempt any two:
i. Which type of building is known as green building? What is concept behind them? **5**
ii. Write short note on HVAC system. **5**
iii. What is hybrid vehicle technology? Explain types of hybrid vehicle. **5**

P.T.O.

Marking Scheme
Environmental Science (T) - CA3AE02 (T)

Q.1	i)	C 1980	1
	ii)	C 17	1
	iii)	B Carbon dioxide equivalents	1
	iv)	A stratosphere	1
	v)	C Land Contamination	1
	vi)	C Human Activity	1
	vii)	C Habitat	1
	viii)	D Decomposers	1
	ix)	D Sulphuric acid	1
	x)	A Parallel	1

Q.2	i.	Equity , Ecology, Economy-	2 Marks
	ii.	It is the act your landscape. –	3 Marks
	iii.	Write principle –	5 Marks
OR	iv.	Define with diagram –	2 Marks
		Explanation –	3 Marks

Q.3	i.	Advantage of Urbanization –	1.5 Marks
		Disadvantage of Urbanization –	1.5 Marks
	ii.	Definition –	2 Marks
		Functional element –	5 Marks
OR	iii.	Explanation –	7 Marks

Q.4	i.	Definition –	3 Marks
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	ii.	Definition –	3 Marks
		Conservation method –	4 Marks
OR	iii.	Concept -	3 Marks
		Causes of salinization –	4 Marks
Q.5	i.	Food chain –	2 Marks
		Food Web –	2 Marks
	ii.	Function of ecosystem –	6 Marks
OR	iii.	Definition –	2 Marks
		Effect of Acid Rain –	2 Marks
		Control of Acid Rain –	2 Marks
Q.6			
	i.	Explanation of types and concept -	5 Marks
	ii.	Short Notes -	5 Marks
	iii.	Define hybrid vehicle technology –	2 Marks
		Types –	3 Marks
