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 **PRESIDENCY UNIVERSITY**

  **Bengaluru**

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| **End - Term Examinations – JANUARY 2025** |
| **Date:** 02-01-2025 **Time:** 01:00 pm – 04:00 pm |

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| **School:** SOIS | **Program:** BCA (AI&ML)/(DS) |
| **Course Code:** CHE1020 | **Course Name:** Environmental Studies and Sustainable Development |
| **Semester**: III | **Max Marks**: 100 | **Weightage**: 50% |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **14** | **14** | **36** | **36** | **NA** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

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| **Answer ALL the Questions. 10 x 2 Marks=20 Marks** |
| **1** | Write the two types of ecological succession. | **2 Marks** | **[Remember]** | **CO1** |
| **2** | Gene bank and Wildlife sanctuaries are which type of conservation of biodiversity? | **2 Marks** | **[Remember]** | **CO2** |
| **3** | Write any four unique properties of water? | **2 Marks** | **[Remember]** | **CO1** |
| **4** | Define ecosystem diversity. | **2 Marks** | **[Remember]** | **CO2** |
| **5** | Define biological hazards with examples. | **2 Marks** | **[Remember]** | **CO3** |
| **6** | What is ozone layer depletion? | **2 Marks** | **[Remember]** | **CO3** |
| **7** | List out two objectives of hygiene education. | **2 Marks** | **[Remember]** | **CO4** |
| **8** | Define soil erosion. | **2 Marks** | **[Remember]** | **CO4** |
| **9** | Write the types of environmental hazards. | **2 Marks** | **[Remember]** | **CO3** |
| **10** | What is desalination? | **2 Marks** | **[Remember]** | **CO4** |

**Part B**

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| **Answer the Questions. Total 80 Marks.** |
| **11.** | a. | Explain the different layers of atmosphere. | **10 Marks** | **[Understand]** | **CO1** |
|  | b. | List out the ways to conserve biodiversity. | **10 Marks** | **[Understand]** | **CO2** |
| **or** |  |  |  | **[Remember]** |
| **12.** | a. | Describe the components of ecosystem with suitable example. | **10 Marks** | **[Understand]** | **CO1** |
|  | b. | List out the threats to biodiversity. | **10 Marks** | **[Understand]** | **CO2** |
|  |  |  |  |  |  |
| **13.** | a. | Explain the causes, effects and solutions to air pollution. | **10 Marks** | **[Understand]** | **CO3** |
|  | b. | Explain the causes, effects and solutions to global warming. | **10 Marks** | **[Understand]** | **CO3** |
| **or** |
| **14.** | a. | Describe e-wastes and mention the causes, effects and its prevention. | **10 Marks** | **[Understand]** | **CO3** |
|  | b. | Explain the causes, effects and solutions to water pollution. | **10 Marks** | **[Understand]** | **CO3** |

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| **15.** | a. | Explain the methods for soil conservation. | **10 Marks** | **[Understand]** | **CO4** |
|  | b. | Describe the causes for the food problems across the globe. | **10 Marks** | **[Understand]** | **CO4** |
| **Or** |
| **16.** | a. | Differentiate between renewable and non-renewable sources of energy | **10 Marks** | **[Understand]** | **CO4** |
|  | b. | Describe the ways to prevent overutilization of water resources. | **10 Marks** | **[Understand]** | **CO4** |

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| **17.** | a. | Write a detailed note on different types of sanitation. | **10 Marks** | **[Understand]** | **CO4** |
|  | b. | Briefly describe the concept of 3R with examples. | **5 Marks** | **[Understand]** | **CO3** |
|  | c. | List out the problems of rapid urbanization. | **5 Marks** | **[Understand]** | **CO3** |
| **Or** |
| **18.** | a. | Write down the types of resources based on their origin and exhaustibility. | **10 Marks** | **[Understand]** | **CO4** |
|  | b. | List out the reason for high population in urban area. | **5 Marks** | **[Understand]** | **CO3** |
|  | c. | List out the different sources of solid waste. | **5 Marks** | **[Understand]** | **CO3** |

**\*\*\*\*\* BEST WISHES \*\*\*\*\***