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 **PRESIDENCY UNIVERSITY**

  **Bengaluru**

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| **End - Term Examinations – JANUARY 2025** |
| **Date:** 03- 01 - 2025 **Time:** 1:00 pm – 4:00 pm |

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| **School:** SOCSE/SOE | **Program:** B. Tech - Basic Engineering Science Cycle |
| **Course Code:** CHE1018 | **Course Name:** Environmental Science |
| **Semester**: First | **Max Marks**: 100 | **Weightage**: 50 |

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| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** | **CO5** |
| **Marks** | **16** | **19** | **12** | **34** | **19** |

**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** | Mention the significance of the invention of fire. | **2 Marks** | **L1** | **CO1** |
| **2** | Name two important minerals and their uses. | **2 Marks** | **L1** | **CO1** |
| **3** | Write two important uses of fresh water. | **2 Marks** | **L1** | **CO1** |
| **4** | Name the pollutant responsible for acid rain. | **2 Marks** | **L1** | **CO2** |
| **5** | Define the term ISO. | **2 Marks** | **L1** | **CO5** |
| **6** | Define mutualism. Provide an example. | **2 Marks** | **L1** | **CO3** |
| **7** | Name four gases responsible for global warming. | **2 Marks** | **L1** | **CO4** |
| **8** | Write two objectives of Convention on Biological Diversity (CBD). | **2 Marks** | **L1** | **CO5** |
| **9** | Difference between weather and climate. | **2 Marks** | **L1** | **CO4** |
| **10** | Name two causes of soil degradation. | **2 Marks** | **L1** | **CO2** |

**Part B**

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| **Answer the Questions Total 80 Marks** |
| **11.** | **a.** | Discuss the impact of climate change on marine and land ecosystems. | **5+5****Marks** | **L2** | **CO4** |
| **or** |
| **12.** | **a.** | Explain the greenhouse effect and its role in global warming. Discuss the causes and solutions for global warming. | **4+6****Marks** | **L2** | **CO4** |
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| **13.** | **a.** | Classify the different sources of energy. Explain the advantages and disadvantages of renewable energy resources. | **2+8****Marks** | **L2** | **CO1** |
| **or** |
| **14.** | **a.** | Describe man-environment interaction. Explain how human activities affect the environment, giving examples of both positive and negative effects. | **4+6****Marks** | **L2** | **CO1** |

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| **15.** | **a.** | Define endangered, endemic, extinct, and rare species, and provide examples for each. | **10****Marks** | **L2** | **CO3** |
| **Or** |
| **16.** | **a.** | Discuss the different types of biodiversity and mention the methods for conservation of biodiversity. | **6+4****Marks** | **L2** | **CO3** |

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| **17.** | **a.** | Describe ozone layer depletion. Discuss its causes, environmental effects and the steps taken to reduce ozone depletion. | **3+12****Marks** | **L2** | **CO2** |
| **Or** |
| **18.** | **a.** | Explain the different types of smog and their causes. Discuss the health and environmental impacts of smog and suggest possible solutions to reduce its occurrence. | **7+8****Marks** | **L2** | **CO2** |

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| **19.** | **a.** | Discuss the objectives of the Environmental Protection Act. How to raise environmental awareness among the public. | **6+9****Marks** | **L2** | **CO5** |
| **Or** |
| **20.** | **a.** | Explain the 3R principle in waste management. What are the key benefits of ISO 14001 in an organization’s EMS. | **6+9****Marks** | **L2** | **CO5** |

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| **21.** | **a.** | Explain how human activities contribute to the increasing levels of air and soil pollution. Analyze the adverse effects and control of air and soil pollution. | **8+12****Marks** | **L2** | **CO4** |
| **Or** |
| **22.** | **a.** | Classify the sources of water. Evaluate the impact and causes of water pollution and methods for its prevention and control.  | **5+15****Marks** | **L2** | **CO4** |

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