**Code No.2MC902BR**

**METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY**

**(An Autonomous Institution)**

**B.E. (CE/EEE/ECE/MECH-L.E) IV-Semester (AICTE) Examination, AUGUST-2023**

**Subject: ENVIRONMENTAL SCIENCE**

**Time: 3 hours Max.Marks:60**

**Note: Missing data, if any, maybe suitably assumed.**

**PART-A**

**Answer All the questions.(10X2M=20M)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q.No.** | **Questions** | **Marks** | **CO** | **BTL** |
| **1. a** | Explain the scope of Environmental education. | **2** | **1** | **2** |
| **b** | List the merits of Solar Energy. | **2** | **1** | **1** |
| **c** | Explain about energy flow in an ecosystem. | **2** | **2** | **2** |
| **d** | What is food chain and food web? | **2** | **2** | **1** |
| **e** | What is meant by the principle “To live and let live”? What is its significance? | **2** | **3** | **1** |
| **f** | Define Types of biodiversity. | **2** | **3** | **1** |
| **g** | What is Noise Pollution? | **2** | **4** | **1** |
| **h** | Outline the main objectives of Environmental Acts. | **2** | **4** | **1** |
| **i**  **j** | Explain in short on Rain Water harvesting.  What is Global Warming. | **2**  **2** | **5**  **5** | **2**  **2** |

**P.T.O**

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**PART-B**

**Answer Any Five questions**.**(5X8M=40M)**

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| **Q.No.** |  | **Questions** | **Marks** | **CO** | **BTL** |
| **2.** | **a** | What are the causes of environmental protection ignorance. | **4** | **1** | **1** |
| **b** | How can an individual conserve different natural resources? | **4** | **1** | **1** |
| **3.** | **a** | Explain the types of ecological pyramid in an ecosystem. | **4** | **2** | **2** |
| **b** | Explain the interaction and interdependency of biotic and abiotic components in an ecosystem. | **4** | **2** | **2** |
| **4.** | **a** | Explain the causes for loss of biodiversity. | **4** | **3** | **2** |
| **b** | List the various methods to conserve biodiversity. | **4** | **3** | **1** |
| **5.** | **a** | Explain in short on Eutrophication. | **4** | **4** | **1** |
| **b** | Explain the methods of solid waste disposal. | **4** | **4** | **1** |
| **6.** | **a** | Illustrate the effects of Climate Change on environmental sustainability. | **4** | **5** | **2** |
| **b** | What is ozone? How does it protect the life on Earth? And write the reasons for ozone depletion. | **4** | **5** | **1** |
| **7.** | **a** | With the help of an example, explain what is the importance of public participation in understanding the environmental problems and finding solutions. | **4** | **1** | **1** |
| **b** | Why should natural ecosystem and various forms of species be protected? | **4** | **2** | **1** |
| **8.** | **a** | What is the Biogeographical classification of India. Explain its significance. | **4** | **3** | **1** |
| **b** | List the Salient features of The Water (Prevention and Control of Pollution) Act 1974. | **4** | **4** | **1** |
| **9.** | **a** | Explain the Concept of sustainable development. | **4** | **1** | **2** |
| **b** | State how social values influence on environmental protection. | **4** | **5** | **1** |

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