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| **University of Kerala** | | |
| Discipline: Environmental Sciences |  | Time: 1 Hour 30 Minutes (90 Mins.) |
| Course Code: UK1DSCENS100 |  | Total Marks: 42 |
| Course Title: Fundamentals of Environmental Science |  |  |
| Type of Course: DSC |  |  |
| Semester: 1 |  |  |
| Academic Level: 100-199 |  |  |
| Total Credit: 4, Theory: 4 Credit; Practical: 1 credit |  |  |

Part A. 6 Marks. Time: 6 Minutes

Objective Type. 1 Mark Each. Answer All Questions

(Cognitive Level: Remember/Understand)

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| 1. | What is primary productivity? | Remember | CO1 |
| 2. | Name one international agreement on environmental protection | Remember | CO 4 |
| 3. | List two main components of the Earth's lithosphere | Understand | CO 1 |
| 4. | Name one example of symbiotic relationship | Understand | CO 1 |
| 5. | What is the difference between weather and climate? | Understand | CO 3 |
| 6. | Define sustainable development | Understand | CO 4 |

Part B. 8 Marks. Time: 24 Minutes

Short Answer. 2 Marks Each. Answer All Questions

(Cognitive Level: Understand/Apply)

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| 7. | Define biodiversity | Understand | CO 1 |
| 8. | What are the reasons for cultural eutrophication? | Understand | CO 2 |
| 9. | Suggest two measures to reduce soil erosion in agricultural lands. | Apply | CO 4 |
| 10. | Classify environmental pollutants based on source and characteristics | Apply | CO 2 |

Part C. 28 Marks. Time: 60 Minutes

Long Answer. 7 marks each. Answer all 4 Questions, choosing among options with each question.

(Cognitive Level: Apply/Analyse/Evaluate/Create)

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| 11. | Calculate the carbon footprint of a household using 500 kg of coal per month. (Assume 1 kg coal = 2.4 kg CO2). | Apply | CO 3 |
| 12. | Illustrate the energy flows in various ecosystems | Analyze | CO 1 |
| 13. | Describe the management measures for air pollution | Evaluate | CO 2 |
| 14. | Develop a plan to promote eco-friendly practices in your local community | Create | CO 5 |