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| **University of Kerala** | | |
| Discipline: Physics |  | Time: 1 Hour 30 Minutes (90 Mins.) |
| Course Code: UK1MDCPHY101 |  | Total Marks: 42 |
| Course Title: Environmental Physics |  |  |
| Type of Course: MDC |  |  |
| Semester: 1 |  |  |
| Academic Level: 100-199 |  |  |
| Total Credit: 3, Theory: 3 Credit  (Applicable for 4 Credit Course with 1 Credit Practical Also) |  |  |

Part A. 6 Marks. Time: 6 Minutes. (Cognitive Level: Remember/Understand) Objective Type. 1 Mark Each. Answer All Questions

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| **Qn.**  **No.** | **Question** | **Cognitive Level** | **Course Outcome (CO)** |
| 1. | List the classification of radioactive waste. | Remember | 1 |
| 2. | List the different types of particulates. | Remember | 3 |
| 3. | Identify the major gases present in the earth’s atmosphere. | Understand | 2 |
| 4. | Define noise. | Understand | 3 |
| 5. | Identify two ways of in-situ conservation of biodiversity | Understand | 4 |
| 6. | Explain soil horizon | Understand | 1 |

Part B. 8 Marks. Time: 24 Minutes. (Cognitive Level: Understand/Apply) Short Answer. 2 Marks Each. Answer All Questions

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course Outcome (CO)** |
| 7. | Distinguish weather from climate | Understand | 2 |
| 8. | Identify India’s Biogeographic zones | Understand | 4 |
| 9. | Explain how population affects pollution. | Understand | 1 |
| 10. | Differentiate primary pollutants from secondary pollutants | Understand | 3 |

Part C. 28 Marks. Time: 60 Minutes. (Cognitive Level: Apply/Analyse/Evaluate/Create)

Long Answer. 7 marks each. Answer all 4 Questions, choosing among options\* within each question.

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course Outcome (CO)** |
| 11. | (A) (i)Explain e-wastes  (ii) Discuss the different types of contaminants in e-waste along with its ill effects  **OR**  (B) (i) Explain air pollution  (ii) Discuss the effects of air pollution on living organisms | Understand | 1 |
| 12. | (A) (i) Explain the term global circulation of atmosphere  (ii) Discuss the main components of global atmospheric circulation  **OR**  (B) Describe atmosphere and its different layers. | Understand | 2 |
| 13. | (A) (i) Explain thermal pollution  (ii) Discuss the causes and effects of thermal pollution  **OR**  (B) i) Explain when water is said to be polluted  (ii) Discuss the causes of ground water pollution | Understand | 3 |
| 14. | (A) (i) Explain biodiversity  (ii) Discuss the threats to biodiversity  **OR**  (B) Discuss the problems due to the use of pesticides and the alternate to pesticides | Understand | 4 |