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| **University of Kerala** | | |
| Discipline: **BOTANY** |  | Time: 1 Hour 30 Minutes (90 Mins.) |
| Course Code: **UK1DSCBOT100** |  | Total Marks: 42 |
| Course Title: **PLANT WORLD 1** |  |  |
| Type of Course: DSC (with Practical) |  |  |
| 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

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. | Name a unicellular alga. | Remember | CO-1 |
| 2. | What are pyrenoids? | Remember | CO-2 |
| 3. | What is the main component of the cell wall in yeast? | Understand | CO-1 |
| 4. | How do lichens attach to their substrates? | Understand | CO-1 |
| 5. | Give an example of an edible mushroom. | Understand | CO-2 |
| 6. | Where does the light-dependent reaction take place in chloroplast? | Understand | CO-2 |

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. | How *Archaea* is different from bacteria? | Understand | CO-1 |
| 8. | Why is it important to replicate experiments in scientific research? | Understand | CO-4 |
| 9. | Differentiate the process of respiration and photosynthesis. | Apply | CO-1,2 |
| 10. | Apply the concept of lighting to take a macro photograph of a flower. | Apply | CO-3 |

Part C. 28 Marks. Time: 60 Minutes

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

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

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| **Qn.**  **No.** | **Question** | **Cognitive**  **Level** | **Course**  **Outcome (CO)** |
| 11. | a) Briefly describe the fungal types that you have studied.  or  b) Explain the plant body of *Nitella* with labeled diagram. | Apply | CO-3  CO-3 |
| 12. | 1. Narrate the thallus morphology of *Riccia* and *Bryum*.   or  b) Explain the geological time scale with special reference to the evolution of plants. | Analyze | CO-2  CO-1 |
| 13. | a) Discuss the various steps in report writing.  or   1. With the help of a labelled diagram describe the structure of Bacteriophage. | Evaluate | CO-1  CO-2 |
| 14. | a) Draw and describe any three types of viruses met within your syllabus.  Or  b. Explain different types of biomes with special emphasis on plant life. | Create | CO-2  CO-1 |

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| **Cognitive Level** | **Marks** | **Percentage** |  | **Course Outcomes** | **Marks** | **Percentage** |
| Remember | 2 | 4.8 |  | CO-1 |  |  |
| Understand | 8 | 19.0 |  | CO-2 |  |  |
| Apply | 11 | 26.2 |  | CO-3 |  |  |
| Analyse | 7 | 16.7 |  | CO-2 |  |  |
| Evaluate | 7 | 16.7 |  | CO-1 |  |  |
| Create | 7 | 16.7 |  | CO-4 |  |  |
| **TOTAL** | **42** | **100** |  | **TOTAL** |  | **100** |