U8341

Reg. No.: ……..

Name:……...

University of Kerala

First Semester Degree Examination, November 2024

Four Year Under Graduate Programme

Discipline Specific Core Course

BOTANY

UK1DSCBOT101 PLANT WORLD 1

Academic Level: 100-199

Time:1½ Hours **Max.Marks:42**

Part A.

Answer All Questions Objective Type. 1 Mark Each.

(Cognitive Level: Remember/Understand)

6 Marks. Time: 6 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
1.	What are tropic movements?	Remember	CO-1
2.	Define allelopathy.	Remember	CO-2
3.	Give an example of fruticose lichen.	Understand	CO-2
4.	Name the amphibians of Plant Kingdom	Understand	CO-2
5.	Name an alga with spiral chloroplast.	Understand	CO-2
6.	What is bokeh?	Understand	CO-4

Part B.

Answer All Questions Short Answer. 2 Marks Each.

(Cognitive Level: Understand/Apply)

8 Marks. Time: 24 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
7.	Distinguish between Archaea and Bacteria	Understand	CO-2
8.	Discuss the benefits of aquatic biomes.	Understand	CO-2
9.	Illustrate the concept of symbiosis.	Apply	CO-2
10.	Explain the different types of Viruses.	Apply	CO-1

Part C.
Answer all 4 Questions, choosing among options within each question.
Long Answer. 7 marks each.
(Cognitive Level: Apply/Analyse/Evaluate/Create)
28 Marks. Time: 60 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome (CO)
11.	a) Discuss the principles of macro photography, focusing on techniques and equipment needed to capture detailed images of plants. or b) Explain the Geological time scale with special reference to plant evolution.	Apply	CO-3 CO-1
12.	a) Analyze the differences between Prokaryotic and eukaryotic organisms. What are the key features that differentiate these two groups? or b) Describe the thallus structure of *Nitella* with diagrams.	Analyze	CO-2 CO-2
13.	a) Briefly describe the ultrastructure of the yeast cell with the help of a diagram. or b) Distinguish cell wall chemistry of Gram-positive and Gram-negative bacteria.	Evaluate	CO-2 CO-2
14.	a. Design an outline of report writing for an experiment on microphotography of bacterial specimens. or b. Discuss the thallus morphology of *Riccia* and *Bryum.*	Create	CO-4 CO-2