

Reg. No.: .....

Name:.....



U8339

**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 is chemotropism?	Remember	CO-1
2.	Which Period in the Mesozoic era is called as the "Age of Cycads"?	Remember	CO-2
3.	Define nucleoid.	Understand	CO-1
4.	What is the function of Capsid?	Understand	CO-1
5.	Frustule is an important component of a certain part in a certain alga. Which is that algae?	Understand	CO-2
6.	What is Macro photography?	Understand	CO-3

**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.	Differentiate between Photosynthesis and Phototropism	Understand	CO-1
8.	Explain how lichens have been classified based on thallus morphology.	Understand	CO-2
9.	Distinguish between Gram +ve and Gram -ve bacteria.	Apply	CO-4
10.	Explain the key characteristics of the Aquatic biome.	Apply	CO-3

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) Explain the cell structure of Spirogyra with a diagram Or b) Explain how the microphotography is dependent on lighting and also explain the photographic equipment used to take photomicrographs.	Apply	CO-2 CO-3
12.	a) What are the key differences and similarities between Archaea and Bacteria? Or b) Briefly explain various Tropic movements in plants.	Analyze	CO-2 CO-1,2
13.	a) Give an account of distinguishing Characters of Viruses, Bacteria, and Fungi. or b) Justify the statement "Plants are alive".	Evaluate	CO-2 CO-1,2
14.	a) Design an outline of report writing in a Project report. Or b) Evaluate the thallus structure of Riccia and Bryum with suitable diagrams.	Create	CO- 4 CO-2