Reg. No.: .....

Name:.....

U7429

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University of Kerala

First Semester Degree Examination, November 2024

Four Year Under Graduate Programme

Discipline Specific Core Course

BOTANY

UK1DSCBOT103 - Fundamentals and Scope of Botany

Academic Level: 100-199

Time:1½ Hours **Max.Marks:42**

Part A.

Answer All Questions, Objective Type. 1MarkEach.

(Cognitive Level: Remember/Understand)

6Marks.Time: 6Minutes

Qn. No.	Question	Cognitive Level	Course Outcome(CO)
1.	What is Palynology?	Remember	CO-2
2.	What is a compound leaf?	Remember	CO-4
3.	Give an example of a Cymose inflorescence.	Understand	CO-4
4.	Father of Green Revolution in India.	Understand	CO-3
5.	How are killing and fixing processes used in the study of plants?	Understand	CO-4
6.	How does photomicrography help in botany?	Understand	CO-4

Part B.

Answer All Questions, Short Answer.2MarksEach.

(CognitiveLevel:Understand/Apply)

8Marks.Time: 24Minutes

Qn. No.	Question	Cognitive Level	Course Outcome(CO)
7.	Describe various phyllotaxy found in plants with examples	Understand	CO-4
8.	Explain the different aestivations in plants, with examples.	Understand	CO-4
9.	Role of fixatives in the study of plant science.	Apply	CO-4
10.	Importance of herbarium collections in botanical research.	Apply	CO-4

Part C.

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

Qn. No.	Question	Cognitive Level	Course Outcome(CO)
11.	a) Explain the discoveries made by two scientists in agriculture or b)What is the principle of Microscopy? Explain different types of microscopes used for the observation of samples.	Apply	CO-3 CO-4
12.	a) Analyze the different types of racemose inflorescences in plants or b) Differentiate between the stem and root modifications in plants.	Analyze	CO-4 CO-4
13.	a) Discuss the different types of fruits, including simple, aggregate, and multiple fruits. or b) Explain the technique and application of photomicrography in biological research.	Evaluate	CO-4 CO-4
14.	a) Develop a methodology for the preparation of herbarium specimens. or b) Discuss fossil evidence for plant evolution.	Create	CO-4 CO-2