



Reg. No.:

Name:

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

BOTANY

UK1DSCBOT102 - Introductory Botany

Academic Level: 100-199

2024 Admission onwards

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark
Each.Answer all questions

Qn No.	Question	CL	CO
1	Name a plant having poisonous fruits	RE	2
2	Vascular cryptogames are called	RE	1
3	Give an example of a plant with a spike inflorescence.	UN	3
4	Name two plants with parallel venation	UN	3
5	What is a plastid?	UN	2
6	Name an acidic stain?	UN	4

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Describe the types of leaf venation	UN	3
8	Describe the features of Cyathium inflorescence.	UN	1
9	Significance of killing and fixing	AP	4
10	Describe how thorns and prickles differ in structure and function.	AP	3

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

Qn No.	Question	CL	CO
11	A)	AP	4, 2

Qn No.	Question	CL	CO
	<p>Explain proper techniques of sectioning and staining</p> <p>OR</p> <p>B)</p> <p>How does the structure of plant cell enable them to perform photosynthesis efficiently?</p>		
12	<p>A)</p> <p>Compare racemose and cymose inflorescence in terms of growth pattern and floral arrangement</p> <p>OR</p> <p>B)</p> <p>How does phyllotaxy affect light exposure in plants?</p>	AN	3, 3
13	<p>A)</p> <p>Evaluate the effectiveness of different structural barriers in preventing herbivory in plants</p> <p>OR</p> <p>B)</p> <p>Evaluate the role of plants in life and plants are the foundation of ecosystem, justify it.</p>	EV	2, 1
14	<p>A)</p> <p>Draw any two biogeochemical cycles in your environment. Explain its significance.</p> <p>OR</p> <p>B)</p> <p>Design a model ecosystem showing the flow of energy from plants to herbivores, carnivores, and decomposers. Include diagrams and descriptions.</p>	CR	2, 2