



Reg. No.:

Name:

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

BOTANY

UK1DSCBOT103 - Fundamentals and Scope of 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	Define the term Pharmacognosy	RE	1
2	Define Lamina.	RE	2
3	Clarify adventitious roots .	UN	1
4	Differentiate between mycology and phycology	UN	1
5	Identify the type of fruit in Annona.	UN	3
6	Identify the plant groups that are dominant in Mesozoic era.	UN	1

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	Explain the contributions of P.K.K. Nair	UN	1
8	Differentiate the various types of Phyllotaxy found in Plants.	UN	4
9	Identify the special inflorescence of Euphorbia and explain it	AP	4
10	Explain why fossil evidences are significant in studying the evolutionary history of plants.	AP	2

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, 3

Qn No.	Question	CL	CO
	<p>Explain the technique and application of photomicrography in biological research.</p> <p>OR</p> <p>B)</p> <p>Explain why killing and fixing are significant in preserving plant materials.</p>		
12	<p>A)</p> <p>Analyze the differences between a simple microscope and a compound microscope.</p> <p>OR</p> <p>B)</p> <p>Analyze the various stages of Herbarium preparation as dry preservation Method</p>	AN	4, 4
13	<p>A)</p> <p>Evaluate the different types of stems you have studied with suitable examples.</p> <p>OR</p> <p>B)</p> <p>Explain the contribution of botanists :Theophrastus, Linnaeus, Charles Darwin,G.J.Mendel,Louispasteur,Watson and Crick and N.I.Vavilov in a tabular form.</p>	EV	1, 3
14	<p>A)</p> <p>Create a chart on different types of inflorescences with examples and diagrams</p> <p>OR</p> <p>B)</p> <p>Create a table on different types of fruits you have studied with suitable examples and explain the structural features.</p>	CR	4, 4