

Reg. No.:



Name:

University of Kerala

U8700

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

BOTANY

UK2DSCBOT101 - Plant World II

Academic Level: 100-199

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	The stele type seen in monocot plants are usually _____.	RE	2
2	What is synangia?	RE	2
3	Define phyllotaxy?	UN	1
4	How do velamen roots absorb water from the atmosphere?	UN	2
5	What is anemophily?	UN	3
6	If a <i>Nephrolepis</i> gametophyte grows in an area with inadequate moisture, what is likely to happen? Options : A)Fertilization will be prevented due to lack of water B)Sporophyte development will occur immediately C)Sporocarps will form for water retention D)The gametophyte will switch to heterotrophic nutrition	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	Compare the characteristics of wind-pollinated flowers with insect-pollinated flowers	UN	3
8	Differentiate male and female cones of Pinus.	UN	4
9	What would happen if insect pollinators disappeared from an ecosystem?	AP	5
10	Prepare a short note on Herbarium.	AP	4

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) Evaluate the structure of gametophyte in Azolla. OR B) Discuss the economic importance of angiosperms. .	AP	3, 5
12	A) Compare dry and wet preservation methods, and evaluate the advantages of using formaldehyde in preservation techniques. OR B) Explain the gametophyte of <i>Psilotum</i> .	AN	4, 3

Qn No.	Question	CL	CO
13	A) Anemophilous flowers are highly advanced than entomophilous plants. Justify your answer with suitable examples. OR B) Critically evaluate the morphological structure of Azolla .	EV	4, 5
14	A) Create a detailed comparative table and illustration that analyzes the structural differences of various steles in terms of their vascular tissue arrangement. OR B) Draw and explain different types of vascular systems in plants.	CR	2, 5