

Reg. No.:



Name:

University of Kerala

W6645

Third Semester FYUGP Degree Examination, November 2025

Discipline Specific Core Course

BOTANY

UK3DSCBOT203 - Bryophytes, Pteridophytes and Gymnosperms

Academic Level: 200-299

2024 Admission

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	Give one example of aquatic bryophyte?	RE	1
2	What type of rhizoids are present in Riccia?	RE	1
3	Describe a dioecious plant. Give an example from Gymnosperm.	UN	3
4	What is the economic importance of Bryophytes?	UN	1
5	Name the most primitive class of Pteridophytes.	UN	2
6	What is sunken stomata	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	Discuss the diagnostic features of Coniferopsida.	UN	2
8	Describe the structure of the thallus in Bryum.	UN	1
9	Explain the symbiotic relationship found in the coralloid roots of <i>Cycas</i> and its significance for the plant?	AP	4
10	Identify the different methods of vegetative reproduction in <i>Riccia</i> and explain how each method helps the plant to survive	AP	1

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) Generalise the ecological ,economic and horticultural uses of Bryophytes. OR B) Identify the different groups of Bryophytes according to Smith's classification	AP	4, 2
12	A) Analyse the difference between the lifecycle of <i>Pteris</i> and <i>Selaginella</i> .	AN	3, 3

Qn No.	Question	CL	CO
	OR B) Distinguish between the male and female cones of <i>Pinus</i> and analyze how their structural differences are related to their reproductive functions		
13	A) Assess the significance of stelar modifications in Pteridophytes. OR B) Evaluate how the structural features of the <i>Pinus</i> needle contribute to its adaptation in xerophytic conditions	EV	1, 3
14	A) Explain how the morphology and anatomical features of selaginella support its survival in different habitats OR B) Prepare a comparative note on Economic, ecological, medicinal and horticultural importance of Gymnosperms.	CR	3, 4