

Reg. No.:



Name:

University of Kerala

W6783

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	Winged pollen grains are found in Options : A)Cycas B) Pinus C)Selaginella D)Pteris	RE	1
2	Name the moss which is used in surgical dressing	RE	1
3	Explain circinate vernation .Give an example from Gymnosperm.	UN	3
4	Discuss the xerophytic adaptations of <i>Cycas</i> .	UN	1
5	Name the structure that bears sporangia in <i>Selaginella</i> .	UN	1
6	Explain why bryophytes are called “amphibians of the plant kingdom”?	UN	2

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	Differentiate between protonema and leafy gametophyte in mosses.	UN	1
8	Differentiate between homosporous and heterosporous with one example each.	UN	2
9	Explain how the structure of ligule in <i>Selaginella</i> helps in Protecting the young leaf	AP	1
10	Explain the economic importance of peat moss.	AP	4

Qn No.	Question	CL	CO
11	A) Explain alternation of generations in bryophytes with examples. OR B) Compare a fossil pteridophyte and fossil Gymnosperm.	AP	1, 3
12	A) Analyse the evolutionary significance of heterospory in pteridophytes. OR B) Analyze the dependency of the Bryophyte sporophyte on the gametophyte. What does this indicate about their evolutionary status?	AN	2, 3
13	A) Evaluate the internal structure of Pinus needle OR B) Evaluate the characteristics of <i>Bryum</i> and <i>Riccia</i> with respect to gametophyte and sporophyte.	EV	3, 3
14	A) Create a comparison chart by comparing the general characters of <i>Cycas</i> and <i>Pinus</i>. OR B) With the help of a diagram explain the structure of <i>Riccia</i> Thallus.	CR	5, 5