

Reg. No.:



Y8008

Name:

University of Kerala

Fourth Semester FYUGP Degree Examination, May 2026

Discipline Specific Core Course

BOTANY

UK4DSCBOT202 - Archegoniates and Paleobotany

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	What is fossil?	RE	1
2	What is sorus	RE	2
3	What is ligule?	UN	1
4	Explain fragmentation in polytrichum.	UN	3
5	Describe vegetative reproduction in Selaginella?	UN	3
6	What is seta?	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	Distinguish between manoxylic and pynoxylic wood.	UN	4
8	Describe the stelar structure of the <i>Lyginopteris</i> stem.	UN	3
9	Comment on pollination of Gnetum. How does it differ from other Gymnosperms?	AP	3
10	List three distinguishing characteristics of Bryophytes.	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) Construct a comparative table showing general characteristics of <i>Selaginella</i> and <i>Pteris</i> .	AP	5, 5

Qn No.	Question	CL	CO
	OR B) Explain the structure of the sporophyte in <i>Polytrichum</i> .		
12	A) Evaluate the evolutionary significance of Gymnosperms OR B) Analyse the structural difference between the ovules of <i>Cycas</i> and <i>Gnetum</i> .	AN	3, 3
13	A) Describe the process of fossil formation in plants. OR B) Describe the secondary thickening in <i>Pinus</i> stem.	EV	4, 4
14	A) Why are bryophytes referred to as the 'amphibians of the plant kingdom'? Discuss their limitations in terrestrial habitats OR B) Analyse the structure of male and female strobilus of <i>Gnetum</i> .	CR	5, 5