

Reg. No.: .....



Name: .....

**University of Kerala**

U8703

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

**BOTANY**

**UK2DSCBOT104 - Phycology, Mycology and Plant Pathology**

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	Name a heteroecious fungus.	RE	1
2	Give an example for filamentous green algae.	RE	1
3	Discuss the different reserve food in different algal groups.	UN	2
4	Why Lichens are called indicators of air pollution	UN	4
5	Why Ascomycetes are called 'Sac Fungi'.	UN	2
6	Name a plant disease caused by fungus.	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	Distinguish between ascomycetes and basidiomycetes.	UN	3
8	Describe the significance of phytoalexins in host pathogen interactions	UN	5
9	Why is proper water management important to control the incidence of blast disease in rice?	AP	3
10	If you find an unknown green filamentous alga in a freshwater pond, how would you confirm if it belongs to Oedogonium?	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) How would you differentiate the various spore stages of Puccinia ? OR B) Draw and describe the habit, thallus structure, and reproduction of Oedogonium.	AP	4, 2
12	A) Comment your opinion that Polysiphonia shows isomorphic triphasic alternation of generation OR B) What are mycorrhizae? Describe the role of mycorrhiza in plant growth.	AN	2, 4

Qn No.	Question	CL	CO
13	A) 'Asexual spore formation in <i>Rhizopus</i> contributes to its rapid colonization and spread in different environments'. Justify. OR B) Write an essay on various control methods of plant disease management.	EV	4, 5
14	A) Construct a flow chart of developmental stages of Coenozygospore in <i>Rhizopus</i> with suitable diagrams OR B) Prepare detailed notes on the various economic and ecological aspects of lichens.	CR	3, 4