

Reg. No.:



Name:

University of Kerala

U9031

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 the causative organism of Tapioca Mosaic Disease.	RE	5
2	What is VAM ?	RE	4
3	Identify the function of heterocyst.	UN	1
4	Describe the ecological role of mycorrhiza in plant growth.	UN	4
5	What is the role of White fly in Tapioca Mosaic Disease ? Distinguish between hyphae and mycelium.	UN	4
6	Indicate the primary vector of tapioca mosaic disease.	UN	5

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 pigment variation among Chlorophyceae and Phaeophyceae..	UN	2
8	Write an account on Ecological importance of lichen	UN	3
9	How can lichens be used as bioindicators to assess air pollution levels in urban areas?	AP	3
10	Draw and label the cell structure of 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) Give an account of the Zygosporangium formation in Rhizopus. OR B) Explain the general principles of plant disease management.	AP	3, 5
12	A) How do environmental factors such as rainfall and wind speed contribute to the rapid spread of citrus canker? OR B) Differentiate the male and female conceptacle in Sargassum with suitable diagrams	AN	4, 2
13	A) Why is the presence of a carposporophyte stage advantageous in the life cycle of <i>Polysiphonia</i> ? OR B)	EV	4, 2

Qn No.	Question	CL	CO
	Assess the effectiveness of mycorrhizal association in plant growth.		
14	A) Draw and explain the infection cycle of Puccinia. OR B) Make a chart that describes plant disease management and therapy.	CR	3, 5