<b>QP Code : P24A035</b>	Reg. No	:	•••••
	Name	:	

## ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

## I SEMESTER M.Sc. (CBCSS-PG) DEGREE EXAMINATION, November 2024 M.Sc Microbiology

MBG1C04 : Agricultural Microbiology and Plant Pathology 2024 Admission Onwards

Time: 3 Hours Maximum Weightage: 30

## Part A

Short answer type questions: Answer any four questions. Weightage 2 for each question

1.	What are biofertilizers?	[BTL1]
2.	Define SAR and ISR.	[BTL2]
3.	What is disease pyramid?	[BTL2]
4.	What is the impact of Potato cyst nematode on the growth and productivity oplant?	of the [BTL4]
5.	What is the etiology of BLB of rice?	[BTL2]
6.	Analyze the role of gut microbiota in termite nutrition and digestion.	[BTL4]
7.	Comment on the importance of <i>Plasmopara viticola</i> .	[BTL1]
	(4:	x2 = 8 Weightage)

7. Comment on the importance of <i>Plasmopara viticola</i> .		
(4x2 = 8 Weigh		
Part B		
Short essay-type questions: Answer any four questions. Weightage 3 for each question		
8. In what ways might you utilize GM crops to develop a sustainable agricultural system with reduced chemical inputs?	[BTL4]	
9. Identify the role of Azotobacter as a biofertilizer.	[BTL3]	
10. How would you apply your understanding of endomycorrhizae as a biofertilizer to enhance soil health and crop productivity in sustainable farming practices?	[BTL3]	
11. Explain about the symptoms, epidemiology and control of Early blight of potato.	[BTL4]	
12. What is phylloplane microflora? illustrate it's significance on plant growth.	[BTL5]	
13. Identify the mycoplasmal infections of plants with suitable examples.	[BTL3]	
14. Assess the importance and applications of Ti plasmid.	[BTL5]	
(4x3 = 12  We)	ightage)	

Turn Over

## Part C

Essay-type questions: Answer any two questions. Weightage 5 for each question

15. Elaborate the symptoms, causative organism, etiology and control of Banana bunchy top disease.	[BTL2]
16. Discuss various beneficial plant microbe interactions.	[BTL1]
17. Identify various biopesticides and examine the use of bacteria and fungi as biopesticides.	[BTL3]
18. Examine in detail the etiology, symptoms, epidemiology and control of Citrus canker	[BTL4]
(2x5 = 10  W	Veightage)
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