Name :

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

II SEMESTER (FYUGP) DEGREE EXAMINATION, MARCH 2025 B Sc Botany

BOT2CJ101: MICROBIAL DIVERSITY AND PHYTO PATHOLOGY 2024 Admission Onwards

(Credits: 4)

Time: 2 Hours Maximum Marks: 70

Section A

Answer all. Each question carries 3 Marks (Ceiling: 24 Marks)

1. List the key features of the Five Kingdom classification.	[BTL1]
2. Illustrate how plant viruses can differ in terms of morphology.	[BTL2]
3. What are the three different groups of archaebacteria, provide example.	[BTL2]
4. Explain the structure of mesosomes.	[BTL2]
5. Describe acid fast staining.	[BTL2]
6. What are microbial biofertilisers?	[BTL1]
7. What role do soil microbes play in maintaining plant health?	[BTL4]
8. What are Koch's postulates?	[BTL1]
9. What is meant by necrosis?	[BTL2]
10. What are biopesticides?	[BTL1]
Section B	
Answer all. Each question carries 6 Marks (Ceiling: 36 Marks)	
11. Describe the structure of prions and discuss why they are different from viruses.	[BTL4]
12. Compare and contrast the COVID-19 and H1N1 pandemics in terms of origin, symptoms, and global impact.	[BTL4]
13. Elaborate the phases of bacterial growth.	[BTL2]
14. Explain various staining methods of microorganisms.	[BTL1]
15. Summarize the reasons for the development of antimicrobial resistance.	[BTL2]
16. Describe the role of virus in genetic engineering.	[BTL5]
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- 17. Evaluate the environment impact of chemicals in disease management. [BTL5]
- 18. Write the etiology, symptom, epidemology and management of quick wilt of pepper. [BTL3]

Section C

Answer any one. Each question carries 10 Marks (1x10=10 Marks)

19. Summarise the transformation and transduction methods of gene transfer. [BTL2]

20. Describe the different microbial applications in biotechnology. [BTL3]
