

QP Code : U24A041

Reg. No :

Name :

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

I SEMESTER B.Sc (FYUGP) DEGREE EXAMINATION, November 2024

B.Sc Microbiology

MBY1CJ101 : Introduction to Microbiology

2024 Admission Onwards

(Credits: 4)

Time : 2 Hours

Maximum Marks : 70

Section A

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

1. Describe various contributions of Martinus W Beijernick. [BTL2]
2. What are the primary mechanisms by which PGPR promotes plant growth? [BTL3]
3. Give an outline of the functions of cell membrane. [BTL2]
4. Give an outline about beneficial microbes. How do they contribute to the food industry? [BTL2]
5. Write about the importance of bacteriophages. [BTL3]
6. Write about pleomorphic bacteria. [BTL1]
7. Describe various inclusion bodies present in bacteria. [BTL2]
8. What is L – Forms? Briefly mention its significance. [BTL1]
9. Examine the role of botanical pesticides in pest control. [BTL3]
10. Compare Pili and Fimbriae. [BTL4]

Section B

[Answer all. Each question carries 6 Marks] (Ceiling: 36 Marks)

11. Briefly explain the morphology of molds and yeasts. [BTL1]
12. Compare the concept of spontaneous generation and biogenesis. [BTL2]
13. Compare the structure of eubacteria and archaebacteria. [BTL3]
14. What are antibiotics? Who discovered it? Explain the role of microbes in antibiotic production. [BTL3]
15. Evaluate the impact of microorganisms on animal and plant health. [BTL5]
16. Describe asexual reproduction in fungi. [BTL2]

Turn Over

17. Explain briefly about replication process in viruses. [BTL2]
18. List out some pathogenic microorganisms present in the environment and briefly explain the diseases caused by pathogenic organisms. [BTL2]

Section C

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

19. Describe various contributions of pioneers to the field of Microbiology. [BTL2]
20. Evaluate how endospores are formed and explain the different sporulation stages in bacteria. [BTL4]

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