QP Code: U25DRIS053

Reg. No : .....
Name : .....

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

I SEMESTER (FYUGP) DEGREE EXAMINATIONS NOVEMBER 2025
(Regular/Improvement/Supplementary)
MBY1MN100 : 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. Explain the term dimorphic fungi.
2. What is SCP?
3. Explain fluid mosaic model of cell membrane.
4. How are L-forms different from Mycoplasma?
5. What is palisade arrangement of bacterial cells?
6. Examine the benefits of lysogeny on the bacterial host.
7 How is the study of Microbiology important for maintaining the environment?
8. Examine the role of fimbriae.
9. How do mycorrhizae help in orchid growth?
10. How did Louis Pasteur's experiment with S necked flask establish biogenesis?

Section B

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

11. Describe the structural features of an endospore.
12. Describe the contributions of Beijerinck and Winogradsky in Microbiology.
13. Detail the structure of a typical Prokaryotic cell.
14. Justify the use of *Bacillus* species as biopesticides.
15. Categorize the inclusion bodies in bacterial cells with respect to their functions.
16. Compare and contrast different types of reproduction in fungi.
17. Discuss how the contributions of Joseph Lister, Paul Ehrlich and Edward Jenner have influenced modern medicine.

Turn Over

18. Summarize the diseases caused by pathogenic bacteria, protozoa, and viruses with emphasis on transmission and symptoms.

Section C

Answer ***any one***. ***(1x10=10marks)***

19. Describe the structure of virus. Explain the steps involved in viral replication.

20. Analyze the differences between Archaebacteria and Eubacteria with suitable examples.

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