

QP Code : U24A075

Reg. No :

Name :

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

**I SEMESTER B.A./B.Sc./B.Com/BSW (FYUGP) DEGREE EXAMINATION,
November 2024**

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. What are fungi Imperfecti? [BTL1]
2. Add a note on pathogenic protozoa. [BTL2]
3. Add a note on pili. [BTL1]
4. List out any three applications of microorganisms in pharmaceutical industry. [BTL1]
5. How is a prophage formed? [BTL2]
6. What viral structures help in attachment and penetration to the host cell? [BTL3]
7. Compare spirochaetes and spirilla. [BTL4]
8. Explain the significance of inorganic inclusion bodies in bacterial cell. [BTL3]
9. Examine the role of baculoviruses in pest control. [BTL4]
10. Identify the contributions of Paul Ehrlich in the field of microbiology. [BTL2]

Section B

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

11. What are the sexual and asexual reproductive structures in fungi? [BTL1]
12. Describe the theory of biogenesis and the arguments favouring it. [BTL2]
13. What are the stages of endospore formation? [BTL1]
14. Evaluate the role of microbes in maintaining human health. [BTL5]
15. Explain the influence of bacterial cell wall composition on the results of Gram staining. [BTL4]
16. Explain the major contributions of pioneers in the Golden Age of Microbiology? [BTL3]

Turn Over

17. Analyze the significance of Koch's postulates with a note on its limitations. [BTL4]
18. Compare and contrast eukaryotic and prokaryotic cell structures with suitable diagrams. [BTL4]

Section C

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

19. Identify the beneficial applications of microbes in food industries. [BTL3]
20. Examine the significance of Mycorrhizae and PGPR in plant growth and soil fertility. [BTL4]

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