

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

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

MBY1FM 105 : Microorganisms in Daily Life

2024 Admission Onwards

(Credits: 3)

Time : 1.5 Hours

Maximum Marks : 50

Section A

[Answer all. Each question carries 2 Marks] (Ceiling: 16 Marks)

1. What is a plasmid? [BTL1]
2. Which Vitamins are produced by gut microbiota? [BTL1]
3. List the steps involved in bioethanol production. [BTL1]
4. Identify the importance of genetic engineering in producing huminsulin. [BTL3]
5. Categorize the different types of eukaryotic microorganisms. [BTL4]
6. Compare between prokaryotic and eukaryotic ribosomes. [BTL4]
7. What is an endotoxin? Give 2 examples. [BTL1]
8. Identify the importance of cometabolism in bioremediation. [BTL3]
9. What is Epidemiology and how is it important? [BTL2]
10. List out the different types of antibiotics based on their mode of action. [BTL1]

Section B

[Answer all. Each question carries 6 Marks] (Ceiling: 24 Marks)

11. Describe the roles of microorganisms in ecosystems. [BTL2]
12. Examine the role of microorganisms in vaccine development. [BTL4]
13. Identify the role of microorganisms in food production. [BTL3]
14. Argue for or against the use of genetically modified microorganisms in biotechnology. [BTL5]
15. What are biopesticides? Give three examples. [BTL1]

Section C

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

16. Identify key factors that affect microbial growth and reproduction. Explain how these factors can be manipulated in industrial microbiology for production purposes. [BTL3]
17. Explain the prospects of microbiology research and innovations. [BTL2]