



QP CODE: 24019419



24019419

Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE  
EXAMINATIONS, MAY 2024**

**Second Semester**

B.Sc Biotechnology Model III

**Complementary Course - MB2CMT02 - MICROBIOLOGY - FUNDAMENTALS OF  
MICROBIOLOGY - II**

2017 ADMISSION ONWARDS

7A186688

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is MacConkey agar?
2. What is stab culture?
3. Define Sanitization.
4. Note on Phenol coefficient.
5. Define antibiotics.
6. Write about Autotrophs.
7. Write about Heterotroph.
8. Define organotrophs.
9. Define fermentation.
10. Write about pentose phosphate pathway.
11. Which is the experimental microorganism of transduction?
12. What is F prime factor?

(10×1=10)

**Part B**

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Classification based on nutritional requirement of bacteria.
14. Write a note on sterilisation and its control method of Moist Heat Sterilization.
15. Note on microbial control by Radiations and its Types.
16. Note on Disk diffusion test.
17. Write Role of temperature in bacterial growth.
18. Describe briefly Growth curve.
19. TCA cycle and its significance.
20. How are R plasmids involved in the transmission of drug resistance.
21. Misuse of drugs leads to drug resistance, justify.

(6×5=30)

### **Part C**

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Explain various methods in detail for cultivating the anaerobic organisms.
23. Microbial metabolism.
24. Detail about Glyoxylate cycle.
25. Describe the mechanism of Transformation.

(2×10=20)

