

QP CODE: 21103184



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,
DECEMBER 2021**

Second Semester

B.Sc Biotechnology Model III

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

2017 ADMISSION ONWARDS

1C654273

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

Each question carries 1 mark.

1. Note on agar.
2. Define anaerobic condition.
3. Define Disinfection.
4. Name two halogens used for sterilization.
5. Define disc diffusion method.
6. What are osmotolerant microorganisms? Give example.
7. Define lithotrophs.
8. Define fermentation.
9. Write the main steps involved in Glyoxalate cycle.
10. Write about the phases of PPP.
11. What is sex pili?
12. Define drug resistance.

.(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. Explain the working principle of autoclave.
16. Explain the class of drugs that inhibits cell wall synthesis.
17. Nutritional classification of bacteria.
18. Explain hetroprophs and organotrophs.
19. TCA cycle and its significance.
20. Discuss about generalized transduction.
21. How are R plasmids involved in the transmission of drug resistance?

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Write an essay on pure culture techniques used in the laboratory.
23. Define growth and explain growth curve.
24. Write an essay about Glycolysis.
25. Describe the mechanism of Transformation.

(2×10=20)

