



20101144

QP CODE: 20101144

Reg No :

Name :

B.Sc. DEGREE (CBCS) EXAMINATION, NOVEMBER 2020

Second Semester

B.Sc Biotechnology Model III

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

2017 ADMISSION ONWARDS

4C7D2259

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

Each question carries 1 mark.

1. Define culture media
2. Differentiate between Sanitization and Antisepsis
3. Define Incineration
4. Name two semisynthetic Penicillins
5. Define disc diffusion method
6. What are osmotolerant microorganisms? give example.
7. Write about Autotrophs
8. Define glycolysis
9. Name the organisms used for alcoholic fermentation
10. Write the enzymes involved in glyoxalate pathway which is absent in animals
11. What is bacterial conjugation?
12. What are Resistant plasmids?

(10×1=10)

Part B

*Answer any **six** questions.*

Each question carries 5 marks.

13. Note on the spread plate technique.
14. What is the working principle of Mac-Intosh filde's jar?





15. What are the conditions Influencing The Effectiveness Of Antimicrobial Agents
16. Mode of action of disinfectants and factors which affect its effectiveness
17. Cite about the different phases of growth curve
18. Explain Hetrotroths and Chemotrophs with examples
19. Write about Lithotrophs and organotrophs with example
20. Explain Transformation experiment and state the importance.
21. Discuss about specialized transduction

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Briefly explain nutrition and nutritional types of bacteria
23. Explain briefly about TCA cycle
24. Write an essay about Pentose Phosphate Pathway
25. Write in detail the origin and transmission of drug resistance

(2×10=20)

