



QP CODE: 24027155



Reg No :

Name :

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

Third Semester

B.Sc Biotechnology Model III

COMPLEMENTARY COURSE - MB3CMT04 - APPLIED MICROBIOLOGY

2017 Admission Onwards

95CEB768

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is freeze drying?
2. Name any two edible mushroom.
3. Function of Rennet.
4. What is Miso?
5. What are probiotics?
6. What is MBRT test?
7. Name symbiotic nitrogen fixing microorganism.
8. Define symbiosis.
9. Define anaerobic digestion.
10. What are sand filters?
11. Define fermentation.
12. What is fermentation?

(10×1=10)

Part B

*Answer any **six** questions.*

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





13. Name ten chief methods of food preservation.
14. Discuss different heat treatments employed in processing foods.
15. Discuss different temperature employed in low temperature storage.
16. Explain the characteristic of an ideal chemical preservative.
17. Write on merits and demerits of SCP.
18. What are the different Interactions between microorganisms and higher plants?
19. Explain the merits and demerits of using biopesticides.
20. Write notes on impingement method of air sampling.
21. Write briefly on the steps involved in the production of any one antibiotic.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Write an essay on 'Food as substrate for microorganisms'.
23. What is spoilage? Explain the types of spoilage of meat.
24. Explain biogeochemical cycle. Write about nitrogen cycle and its significance.
25. Explain MPN method for testing the presence of coliforms.

(2×10=20)

