



QP CODE: 24020560



24020560

Reg No :

Name :

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

Second Semester

B.Sc Botany Model II Food Microbiology

Vocational Course - BO2VOT12 - APPLIED MICROBIOLOGY PART - II

2017 ADMISSION ONWARDS

BDBA04C1

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is methylotrophy?
2. What is sulphur cycle?
3. Name two denitrifying bacteria.
4. What is oxidatin pond?
5. What is activated sludge process?
6. What are the mechanical barriers of natural immunity?
7. What are the factors affecting antigenicity?
8. What are epitopes?
9. What is graft rejection?
10. Name two bacterial diseases in humans.
11. What is syphilis?
12. Name two viral diseases spread through nasopharyngial route.

(10×1=10)

Part B

*Answer any **six** questions.*

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





13. Comment on the significance of biogeochemical cycling.
14. Write a note on organic decomposition of cellulose.
15. Comment on activated sludge process.
16. Briefly describe the primary treatment of sewage.
17. Differentiate active acquired immunity from passive acquired immunity.
18. Write a short essay on classification of immunoglobulins.
19. Write short notes on interferons.
20. Comment on the prophylaxis and treatment of Cholera.
21. What are the symptoms of AIDS?

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Comment on the role of microorganisms as biofertilizers.
23. Explain most probable number test.
24. Differentiate antibody mediated immunity from T cell mediated immunity.
25. Discuss the pathogenesis, clinical features, prophylaxis and treatment of Diphtheria, Tetanus and Pertussis.

(2×10=20)

