

QP CODE: 24019299



Reg No : .....  
Name : .....

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

**Second Semester**

B.Sc Botany Model II Environmental Monitoring And Management

**Vocational Course - BO2VOT03 - ENVIRONMENTAL MICROBIOLOGY**

2017 ADMISSION ONWARDS

6A4F5496

Time: 3 Hours

Max. Marks : 80

**Part A**

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is the difference between cyst and spore?
2. What is heterotrophic bacteria?
3. Name the causative organism of amoebiotic dysentery.
4. What is the genetic material in TMV virus?
5. Define Biometallurgy.
6. What is acidophiles?
7. What is agrobacterium?
8. Name the microorganism causes mouldy spoilage on bread.
9. Name the pathogen responsible for green rot eggs.
10. List any two fermentation products.
11. What is food poisoning?
12. What is MPN?

(10×2=20)

**Part B**

*Answer any **six** questions.*

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





13. Discuss the classification of fungi.
14. Discuss the asexual reproduction of Fungi.
15. Describe the life cycle of Plasmodium.
16. Describe the process of virus multiplication.
17. Discuss the roles of microbes in environment.
18. What are biogeochemical cycles?
19. What is mycorrhiza? Write in brief different types of mycorrhiza studied by you.
20. Write a brief note on microbial toxins.
21. What do you know about plant-microbe interactions? Discuss in brief destructive association.

(6×5=30)

### **Part C**

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain with diagram different life cycles of bacteriophages.
23. Give an account of distribution and role of microorganisms in air.
24. Give an account of principle of food preservation. Add a note on different types of preservation techniques.
25. Describe water borne diseases and control measures.

(2×15=30)

