



QP CODE: 23104812



23104812

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE
EXAMINATIONS, FEBRUARY 2023**

First Semester

B.Sc Botany Model II Food Microbiology

Vocational Course - BO1VOT09 - MICROBIAL WORLD PART - I

2017 Admission Onwards

8D55C6AF

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Write short notes on two Nobel Prize winners and their contributions in the field of microbiology.
2. Explain theory of spontaneous generation.
3. Write a short note on PHA.
4. Differentiate between protoplast and spheroplast.
5. What is the difference between diplococci and streptococci?
6. Explain the structural details of a chloroplast.
7. What are chlamydospores?
8. What is commensalism?
9. What is fermentation?
10. What is lysogeny?
11. Explain magnification.
12. What are the objective lenses in a bright field microscope?

(10×2=20)

Part B

*Answer any **six** questions.*

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





13. Write a note on the major contributions made by various scientists in the field of microbiology.
14. Give a comparative account of Gram positive and Gram negative bacterial cell wall.
15. Write a short note on cytoskeleton of eukaryotes.
16. Explain the structure of a plant cell.
17. What are the methods employed for the culturing of viruses?
18. Briefly explain the structure of a bacteriophage.
19. What are prions? Explain their significance.
20. Explain the principle and working of fluorescence microscope.
21. Give a brief account of the optics, principle and working of a scanning electron microscope.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. What are the major discoveries and contributions to the field of microbiology?
23. Explain the structural details of a plant cell and an animal cell.
24. Write an essay on the multiplication of viruses.
25. Give a brief account of the optics, principle and working of a fluorescence microscope.

(2×15=30)

