



23104753

QP CODE: 23104753

Reg No :

Name :

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

First Semester

B.Sc Zoology and Industrial Microbiology Model III Double Main

Core Course - ZI1CRT01 - FUNDAMENTALS OF MICROBIOLOGY

2017 Admission Onwards

D54A3F65

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Microscope
2. Anton van leeuwenhoek
3. Edward jenner
4. Internal structure of bacteria
5. Amphitrichous flagella
6. Dry heat
7. Pencillin
8. EMB
9. Mac Conkey media
10. Anaerobic medium
11. Preservation
12. Stain

(10×1=10)

Part B

*Answer any **six** questions.*

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





13. Explain the arrangement of bacteria.
14. Discuss a brief account on endospore formation.
15. What is culture medium? Distinguish between solid and liquid media.
16. Explain various methods involved in sterilization.
17. What are antibiotics? Write a short note of antibiotic sensitivity test?
18. What is culture media? Write short note on different components of media.
19. Distinguish between spore and flagella staining.
20. Distinguish between bright field and dark field microscope.
21. Illustrate diagrammatic representation of phase contrast and fluorescent microscope.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the Theory of Spontaneous Generation? Detail on any two experiments on Abiogenesis.
23. Define Cytoplasmic membrane. Explain the external and internal structure of bacteria.
24. Explain differential media? Write a note on enriched media, enrichment media and indicator media with example.
25. Explain Microscope. Distinguish between compound and electron microscope.

(2×10=20)

