



QP CODE: 23104669



23104669

Reg No :

Name :

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

First Semester

B.Sc Biotechnology Model III

**Complementary Course - MB1CMT01 - MICROBIOLOGY - FUNDAMENTALS OF
MICROBIOLOGY - I**

2017 Admission Onwards

CFA8B065

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is Microbiology?
2. Who coined the term vaccines?
3. What is immunology?
4. What are considered to be the three parts of Taxonomy?
5. What are intrinsic proteins?
6. What are archaea? Write an example
7. What is bright field microscope?
8. Define phase contrast microscope.
9. What is freeze etching?
10. What is simple staining technique?
11. Name the Mordant used in Gram Staining.
12. Define Negative staining.

(10×1=10)

Part B

*Answer any **six** questions.*

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





13. Discuss the different harmful roles of microorganisms.
14. Explain different fields of microbiology.
15. Explain different inclusion bodies found in bacteria.
16. What are endospores?
17. Briefly explain excited and barrier filter.
18. Explain Dark field microscope.
19. Explain briefly types of Electron microscope.
20. Describe briefly Smear preparation from solid culture and liquid culture.
21. Explain the procedure for wet mount preparation.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Compare and contrast prokaryotes and eukaryotes.
23. Write an essay on the ultra structure of bacteria.
24. Explain bright field microscopy.
25. What is Staining? Explain different types of staining technique with example.

(2×10=20)

