

QP CODE: 18103672



18103672

Reg No : .....

Name : .....

**B.Sc.DEGREE(CBCS)EXAMINATION, DECEMBER 2018**

**First Semester**

B.Sc Biotechnology Model III

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

2018 Admission only

32118636

**Maximum Marks: 60**

**Time: 3 Hours**

**Part A**

Answer any **ten** questions.

Each question carries **1** mark.

1. What is Microbiology?
2. Name two scientists who opposed spontaneous generation?
3. What is immunology?
4. What is molecular classification?
5. What is albert staining ?
6. Name the protein present in flagella ?
7. What is focal length ?
8. Name the microscope used to observe unstained microorganism.
9. What is freeze etching?
10. Name stains used for simple staining
11. Acid fastness in Acid Fast Staining is due to?
12. Name two stains used in negative staining.

(10×1=10)

**Part B**

Answer any **six** questions.

Each question carries **5** marks.

13. Differentiate between prokaryotes and eukaryotes?
14. Explain different fields of microbiology?
15. Explain structures external to cell wall?



16. Peptidoglycan in bacterial cell wall
17. Briefly explain resolution power and magnification power of microscope
18. Briefly explain excited and barrier filter
19. Explain Principle and working of SEM
20. Discuss staining techniques and application of staining technique in microbiology
21. Describe briefly Smear preparation from solid culture and liquid culture

(6×5=30)

### Part C

Answer any **two** questions.  
Each question carries **10** marks.

22. Write an essay on the beneficial roles of microorganisms in our society
23. Differentiate between archaebacteria and Eubacteria
24. Explain Working and principle of Electron Microscope
25. Write in detail methods used to study bacteria in live condition.

(2×10=20)