



19103071

QP CODE: 19103071

Reg No : .....

Name : .....

**B.Sc.DEGREE (CBCS) EXAMINATION, NOVEMBER 2019**

**First Semester**

B.Sc Biotechnology Model III

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

2017 Admission Onwards

8E868B92

Time: 3 Hours

Maximum Marks :60

**Part A**

*Answer any ten questions.*

*Each question carries 1 mark.*

1. What is Microbiology?
2. What is a strain?
3. What are probiotics? Give example.
4. What is immunology?
5. Bacterial cell wall is made up of.....
6. What are metachromatic granules?
7. What is resolving power?
8. Define the principle of dark field microscopy.
9. Define TEM.
10. Principle of Simple Staining Technique.
11. Define Differential staining with example.
12. Name two stains used in negative staining.





(10×1=10)

**Part B**

*Answer any six questions.*

*Each question carries 5 marks.*

13. Explain different fields of microbiology.
14. Explain structures internal to cell wall.
15. Discuss the different arrangements of flagella.
16. Differentiate between archaeobacteria and eubacteria.
17. Explain phase contrast microscope.
18. Explain Fluorescent microscope.
19. Differentiate between TEM and SEM.
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. Describe the principles and methods of bacterial classification.
24. Explain bright field microscopy.
25. What is Staining? Explain different types of staining technique with example.

(2×10=20)

