



QP CODE: 25050597



Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION DECEMBER 2025

First Semester

M Sc MICROBIOLOGY

Core Courses - MG030101 - FUNDAMENTALS OF MICROBIOLOGY

2019 Admission Onwards

67BBCC97

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Note on Golden age of Microbiology.
2. What are the properties of algae?
3. Explain Woese classification.
4. Write a short note on culture media.
5. What is the difference between NAG and NAM.
6. What is the purpose of simple staining?
7. Define tyndallization .
8. Define integrons.
9. Write a note on generalised transduction.
10. Explain gene mapping

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain spread plate and pour plate methods for obtaining pure culture.
12. Explain morphovar, serovar and biovar with examples.
13. Write a short essay on steps involved in viral multiplication.
14. Discuss any four advantages and disadvantages of fungus with example.
15. Write notes on cultural characters of bacteria on solid media, liquid media and nutrient gelatin.





16. Explain testing of disinfectants .
17. Write a short essay on protein synthesis inhibitors.
18. Write short note on extrachromosomal genetic material

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Write an essay on intra species classification of bacteria on the basis of Bergey's manual of systematic bacteriology.
20. Write an essay about life cycle of bacteriophage with diagram.
21. Describe about flagellar, gliding and amoeboid movement in bacteria. Add a note on types of flagellar arrangement.
22. What are the different mechanisms used for selection of mutants.?

(2×5=10 weightage)

