

QP CODE: 25050614



Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION, DECEMBER 2025

First Semester

M Sc FOOD AND INDUSTRIAL MICROBIOLOGY

Core Courses - MG020102 - PRINCIPLES OF BIOCHEMISTRY

2019 Admission Onwards

5B89F990

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are the metabolic functions of Cytosol?
2. What is Pili?
3. Comment on Phospholipids.
4. Write short notes on secondary metabolites.
5. Comment on the role of Carnitine in beta oxidation.
6. Describe the metabolic importance of insulin.
7. What is Entropy?
8. Explain group transfer reaction with example.
9. Discuss Lock and Key model of enzyme.
10. Comment on rate limiting enzymes.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Discuss the structural features of carbohydrates.
12. Write the classification of antibiotics .Give examples.
13. Briefly explain Pentose Phosphate Pathway.
14. Explain the synthesis of pyrimidines.





15. Discuss membrane transport.
16. Explain the characteristics of enzymes.
17. Explain Michaelis- Menten hypothesis.
18. Comment on Abzymes

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain the classification of proteins. What are the forces stabilising protein structure.
20. Explain Krebs Cycle.
21. Write an essay on Acids, Bases and Buffers.
22. Explain the different types of Enzyme Inhibition.

(2×5=10 weightage)

