



QP CODE: 26019204



26019204

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc BOTANY

**ELECTIVE - BY810401 - FOOD, AGRICULTURAL AND ENVIRONMENTAL
MICROBIOLOGY**

2019 Admission Onwards

A9C8D551

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Write a short note on spoilage of seafoods.
2. How do anaerobic conditions play a role in food preservation?
3. Comment on any fermented milk product.
4. What is HACCP?
5. What are Entomopathogenic fungi?
6. How organic farming enrich soil microflora?
7. Comment on microbial communities.
8. What are hyperthermophiles?
9. What is a selective media? Give example.
10. What is primary waste water treatment?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Give an account on production and microbiology of Sauerkraut.





12. Describe any two food borne disease caused by bacteria.
13. Describe in detail any two factors affecting the food quality.
14. Explain the role of different nif genes with suitable examples.
15. Distinguish the features of ectomycorrhiza and endomycorrhiza.
16. Illustrate and explain the bacterial growth curve.
17. Explain the role of microbes in the production of Organic compost.
18. Explain the mechanism of biofiltration.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Give a detailed account on various factors influencing microbial growth in food.
20. Write an essay on various methods for detection of food spoilage and food spoiling microbes.
21. Describe methods of production of bio fertilizers.
22. Describe the factors influencing soil microbial population. Also explain the role of microorganism in soil formation and fertility.

(2×5=10 weightage)

