



QP CODE: 23145312



23145312

Reg No : .....

Name : .....

**M Sc DEGREE (CSS) EXAMINATION, DECEMBER 2023**

**First Semester**

M Sc FOOD TECHNOLOGY AND QUALITY ASSURANCE

**CORE - FQ010103 - FOOD MICROBIOLOGY**

2019 ADMISSION ONWARDS

49B8C2FE

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. Comment on applications of microbiology.
2. What is YM Shift?
3. Define phenol coefficient.
4. Differentiate between natural and synthetic antibiotics.
5. Write down the nutritional requirements of E. coli.
6. Moisture content of a food can be adjusted by adsorption & desorption. Is there a method to reduce water activity without changing moisture content. Justify.
7. Differentiate microbiological standard and microbiological specification
8. Define coliforms.
9. Give an account of beneficial effects of probiotics.
10. Write a note on mycotoxins with suitable examples.

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Comment on organelles associated with motility in eukaryotic cell.
12. What are the types of filters used for filtration?
13. Define the role of halogens as an antimicrobial agent.





14. Differentiate spread plate technique & pour plate technique.
15. Which are the biochemical tests for characterization of bacteria in which a pH indicator dye is used to detect the reaction?
16. Differentiate ropiness in bread and milk with its causative agents.
17. What is food infection? Describe the symptoms and diseases caused by Listeriosis.
18. Differentiate LT toxin & ST toxin

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Explain the structure of Eukaryotic cell.
20. Compare the effect of intrinsic and extrinsic parameters affecting microbial growth
21. How does milk gets spoiled? Write on a dye reduction test for quality evaluation of milk.
22. Differentiate food infection and food intoxication with two major causative agents, respective diseases for each type.

(2×5=10 weightage)

