

E 3008



Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2022

Fifth Semester

Core Course—XIV—FISHERY MICROBIOLOGY

(Common for B.Sc. Aquaculture and B.Sc. Industrial Fish and Fisheries

(2013 to 2016 Admissions)

Time : Three Hours

Maximum Marks : 80

Part A (Short Answer Questions)

Answer all questions.

Each question carries 1 mark.

1. Heterocyst.
2. T streak method.
3. FISH.
4. TMA.
5. Facultative anaerobes.
6. Capsule stain.
7. Pseudovirus.
8. Acridine dye.
9. Streak plate method.
10. Thermostable nuclease test.

(10 × 1 = 10)

Part B (Brief Answer Questions)

Answer any eight questions.

Each question carries 2 marks.

11. Koch Postulates.
12. Lactic acid Bacteria.
13. Lyophilization.

Turn over





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14. Clostridium.
15. Tyndallisation.
16. Pleomorphic bacteria.
17. Acid fast bacteria.
18. Passive transport.
19. Actinomycetes.
20. Psychrophiles.
21. MPN.
22. Importance of micro-organisms.

(8 × 2 = 16)

Part C (Descriptive / Short Essay Questions)

*Answer any **six** questions.
Each question carries 4 marks.*

23. Classification of bacteria.
24. Active transport.
25. Inclusions.
26. Patterns of bacterial mobility.
27. Endospores.
28. Infection cycle in bacteriophages.
29. Schaeffer Fulton Spore stain.
30. Process of sporulation.
31. Classification of virus.

(6 × 4 = 24)





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Part D (Long Answer Questions)

*Answer any **two** questions.*

Each question carries 15 marks.

32. Methods of sterilisation.
33. Types of microscopes and their uses.
34. Methods of maintenance and preservation of microbial culture.
35. Explain the chemistry of staining. Give an account of Microbial stains and staining techniques.

(2 × 15 = 30)

