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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2024

Fourth Semester

Core Course XI—AQUATIC MICROBIOLOGY

(For B.Sc. Microbiology)

[2013 to 2016 Admissions]

Time : Three Hours Maximum Marks : 80

Part A

Answer **all** *questions.*
Each question carries 1 *mark.*

Write about :

1. Eutrophication.
2. Disease caused by Salmonella typhi.
3. Cynabacteria.
4. Upwelling in the sea.
5. Impact of oil pollution in ocean.
6. Microbiome.
7. Algal blooms.
8. Membrane filtration.
9. Archae bacteria.
10. Fouling.

(10 × 1 = 10)

Part B

Answer any **eight** *of the following.*
Each question carries 2 *marks.*

Write note on :

11. Decomposers in ecosystem.
12. E-coli contamination in water.
13. Heterotrophic bacteria.
14. Deep water zones.
15. Pour plate method.
16. Inorganic pollution in water bodies.
17. Potability of water.
18. ATP test.
19. Indicator organisms.
20. Metal pollution.
21. Biofilm formation.
22. Ecosystem in a stream.

(8 × 2 = 16)

Turn over

Part C

Answer any **six** *of the following.*
Each question carries 4 *marks.*

23. Write about estuaries.
24. Give an account on changes in aquatic ecosystem due to organic pollutants.
25. Write an account on bioactive compounds produced from aquatic microbes.
26. Explain how water can be purified and disinfected for drinking purposes.
27. Write a note on importance of microbes in marine ecosystem.
28. Point out the importance of microbial consortia in a water body.
29. Explain how drinking water can be examined for microbial contamination.
30. Write about benthic micro-organisms.
31. Explain the types and control of algal blooms.

(6 × 4 = 24)

Part D

Answer any **two** *of the following.*
Each question carries 15 *marks.*

32. Explain techniques to study aquatic micro-organisms.
33. Give an account on aquatic ecosystems.
34. 'Water borne diseases can be deadly.' Explain with examples. Point out measures to control them.
35. Explain water pollution and its impact on aquatic ecosystem.

(2 × 15 = 30)