

CSM—30/24
PART—II/PAPER—VI
FISHERY SCIENCE
PAPER—I

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Time : 3 Hours

Full Marks : 250

*The question paper contains **18 (Eighteen)** questions
in **GROUP—A, (12)** and **GROUP—B, (06)** together.*

GROUP—A

*Candidates to attempt **10 (ten)** questions within word limit of **250**.
Each question carries **15** marks.*

1. Give a detailed account on osmoregulation in finfishes.
2. Discuss the application of remote sensing in fishing.
3. Describe the major riverine systems of India.
4. Write a detailed account on the major exploited fishery resources of EEZ of India.
5. Describe the functions of various endocrine glands in fishes.
6. Discuss on the various major currents of the Indian Ocean.
7. Describe bioaccumulation and biomagnification in aquatic organisms.
8. Give a comparative account on Standard Deviation and Standard Error.
9. Discuss the principles, objectives, structure and functions of Fishermen Cooperatives in India.

10. Describe the biological communities in rocky, sandy and muddy shores of the sea.
11. Describe the different staining techniques of bacteria.
12. Explain the citric acid cycle with neat illustrations.

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GROUP—B

*Candidates to attempt **05 (five)** questions within word limit of **300**.
Each question carries **20** marks.*

13. Describe the taxonomical characteristics of the order Cypriniformes.
14. Discuss the DNA structure in fishes.
15. Describe the biochemical, serological and molecular test for the identification of bacteria.
16. Discuss various steps involved in the sewage treatment and effluent management.
17. Write an essay on the role of fisheries and aquaculture in the Indian economy and human health.
18. Discuss the taxonomical characteristics of the family Cichlidae and Nemipteridae.

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SPACE FOR ROUGH WORK

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