S.No. 3322 P 16 ZOE 4 A

(For candidates admitted from 2016–2017 onwards)

M.Sc DEGREE EXAMINATION, NOVEMBER 2022.

Zoology - Elective

FISHERY BIOLOGY

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. Diadromous fishes
2. *Scylla serrata*
3. Mackeral fishery
4. Cost benefit ratio
5. Annuli
6. Fish stock
7. Pokkali fields
8. Monosex culture
9. Fish rot disease
10. Gill net

PART B — (5 × 5 = 25)

Answer ALL questions, choosing either (a) or (b).

11. (a) Trace the history of fisheries in India.

Or

(b) Give an account on pond construction and its management for shrimp farming.

12. (a) Discuss riverine fishery resources of India with suitable examples.

Or

(b) Give an account on deep sea fishes and their adaptive features.

13. (a) 'Marking — Recapture method' — How is it useful in fishery population studies?

Or

(b) Describe the use of vertebra in the assessment of age of a fish.

14. (a) Explain poly culture with suitable examples.

Or

(b) Describe the process of sewage fed fish culture.

15. (a) Discuss spoilage of fishes and methods of fish preservation.

Or

(b) Describe induced breeding techniques in fishes.

PART C — (3 × 10 = 30)

Answer any THREE questions.

16. Give account on status of molluscan fisheries and its economics in India.

17. Describe the culture practices of Asian sea bass *Lates calcarifer*.

18. Write an essay on the different methods used for assessing fish stock.

19. Describe the progress made in ornamental fish culture in India.

20. Discuss etiology, clinical symptoms and prophylaxis of bacterial diseases in fishes.

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