2026

2nd Semester Examination

M.F.Sc. in Aquaculture

Paper : AQC 513-T

[Inland Saline Aquaculture]

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Full Marks : 70 Time : Two Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

Group - A

Answer any ***five*** questions : 2×5=10

1. Write scientific names of two major fin-fish and two shell-fish cultured in inland saline water.
2. What do you mean by euryhaline fish? Cite example.
3. Differentiate between surface and groundwater.
4. What is nutrient sparing and chelation in inland saline water?
5. Define geomorphological changes.
6. What is the difference between intensive and super intensive farming system?

P.T.O.

7. Name two halophytic crops suitable for saline aquaculture effluent.

8. Define ionic amendment.

Group - B

Answer any ***six*** questions : 5×6=30

9. Write an account on the importance of integrated inland saline aquaculture with example.

10. Provide an overview of the global distribution and current status of inland saline lands and groundwater. 2+3

11. Discuss the concept of converting salt-affected land into productive aquaculture.

12. State the nutritional needs and feed strategies for euryhaline finfish fingerlings in saline ponds.

13. Describe the anthropogenic causes of secondary salinization in canal-irrigated farming areas.

14. Outline the importance of the soil and water characteristics of inland saline waters.

15. Briefly explain the metabolic interactions and growth promotion mechanisms that occur in altered water systems.

16. Define the potential of selective carp culture in the inland saline areas of India.

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17. Explain how the sodium-to-potassium (Na : K) ratio contributes to osmoregulation in cultured crustaceans.

18. Elaborate the role of nutritional interventions in inland shrimp farming.

Group - C

Answer any ***one*** question : 10×1=10

19. Explain the future prospects for cobia farming in inland saline ponds. Write culture practices for *Litopenaeus vannamei* in inland saline waters. 5+5

20. State the adverse effects of salinization. Write a brief note on integrated inland saline aquaculture systems. Mention the main challenges to socio-economic development in coastal areas. 3+5+2

[Internal Assessment : 20 marks]

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