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PG/1st Sem /AQC/25

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2025

1st Semester Examination

M.F.Sc. in Aquaculture

Paper : AQC 510-T

(Open Water Aquaculture)

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. Mention the constraints of open water aquaculture.
2. Differentiate briefly between cage culture and pen culture.
3. What do you mean by carrying capacity in fisheries?
4. What do you mean by stock enhancement?
5. Explain the cause of eutrophication in open water.
6. What are 'bioengineering problems' commonly faced in open sea cage design?

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7. List four major open water resources available in India for aquaculture development.

8. Write a note on importance of sanctuary in fish diversity conservation.

Group - B

Answer any *six* questions : 5×6=30

9. Describe the criteria for selecting a suitable site for sea farming.

10. What do you mean by open water aquaculture? Briefly explain its significance in the current food security context. 2+3

11. Discuss the current status of fish producing in major Indian reservoirs.

12. What is river ranching program? Discuss the important criteria followed in ranching program.

13. Distinguish between Extensive and Intensive open water farming.

14. Discuss the global scenario of aquaculture in open water. State the name of the country leading in sea cage production. 4+1

15. Explain the conflicts between aquaculture and hydroelectric projects. Discuss how irrigation projects affect cage farming in canals. 3+2

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16. What is "Biofouling"? Explain how it affects the efficiency of cage culture. 2+3

17. Explain the importance of seed quality in open water stocking programs.

18. Discuss the social issues and conflicts arising from open water farming. Who are the primary stakeholders to consider? 4+1

Group - C

Answer any *one* question : 10×1=10

19. How does aquaculture lead to salinity intrusion in coastal areas? Discuss the impact of effluent discharge on the local ecosystem. Analyze the process of eutrophication caused by cage farming. 3+3+4

20. Discuss the present status and utilization of open water resources in India. Discuss the management strategies for rearing advanced fingerlings to table-size fish in cages. 4+6

[Internal Assessment : 20 marks]
