2026

2nd Semester Examination

M.F.Sc. in Aquaculture

Paper : AQC 504-T

(Aquaculture Policy and Planning)

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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. What is meant by sustainable aquaculture?
2. What is biosecurity in aquaculture?
3. Explain the meaning of contamination of the indigenous gene pool.
4. What is CAA in regulating Coastal Aquaculture in India?
5. What is Environmental Impact Assessment (EIA) in Aquaculture?
6. Define microplastics.

P.T.O.

7. Briefly discuss the concept what is the EAO code of conduct for responsible aquaculture Fisheries.

8. What is bioremediation?

Group - B

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

9. Discuss the major environmental and Socio-economic issues associated with shrimp farming in coastal water.

10. Write a note on the ecological and genetic risks associated with the introduction of exotic species.

11. Briefly discuss on Fisheries administrative setup at central and state.

12. Describe the role of carbon sequestration in mitigating climate change in aquaculture.

13. State the different measures to reduce energy consumption and greenhouse gas emissions in aquaculture.

14. Write a note on the principles and advantages of organic aquaculture. 2+3

15. What is rotational aquaculture? Mention its importance in sustainability. 2+3

16. Discuss the role of biotechnology in sustainable aquaculture.

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17. How solar energy is applied in aquaculture? Mention its advantages. 2+3

18. State the importance of seed certification in sustainable aquaculture.

Group - C

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

19. Discuss the conflicts associated with water and land use in aquaculture. Explain conflicts between aqua farmers, fishermen, and other enterprises. 5+5

20. Discuss the potential impacts of climate change on aquaculture production. Suggest suitable adaptation and mitigation strategies for developing climate resilient aquaculture systems.

[Internal Assessment : 20 marks]

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