



QP CODE: 18103754

Reg No	:	
Name		

B.Sc.DEGREE(CBCS)EXAMINATION, DECEMBER 2018

First Semester

B.Sc Zoology Model II Aquaculture

Vocational Course - ZA1VOT01 - PRINCIPLES AND METHODS IN AQUACULTURE

2018 Admission only AC0A168D

Maximum Marks: 80 Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries 2 marks.

- 1. List out the qualities for the selection of candidate species in Aquaculture.
- 2. Explain the Mechanical treatment of sewage.
- 3. How is Turbidity measured? How is Turbidity remedied in aquaculture ponds?
- 4. What is a Monk sluice? What is its function?
- 5. Name two aquatic insect pests in aquaculture ponds.
- 6. Explain the importance of Nursery ponds.
- 7. Comment on the importance of stocking ponds.
- 8. What are the materials used for liming? What are the uses of liming in culture ponds?
- 9. What are the different fins in fishes? What are their functions?
- 10. Distinguish between Green Mussel and brown mussel. Give scientific names of both.
- 11. Why is brackishwaters considered as Nursery grounds for various marine species?
- 12. Name any four important reservoirs of India and mention their major fishery.

 $(10 \times 2 = 20)$

Part B

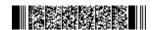
Answer any **six** questions.

Each question carries 5 marks.

- 13. Explain Pokkali culture and culture in Bheries.
- 14. Distinguish between Monoculture, Monosex culture and Polyculture.
- 15. Explain Soil quality parameters in pond fish culture.



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- 16. Explain Acclimatisation of fishes and its importance.
- 17. What is a Hapa? What are the different types of Hapa?
- 18. Explain Stocking density and the various factors affecting stocking density.
- 19. What is Harvesting? Explain different harvesting methods in pond fish culture.
- 20. What are Larvivorous and Weed Fishes? Explain their ecological significance citing suitable examples.
- 21. How does construction of reservoirs affect the fishery? Explain the constraints in reservoir fisheries.

 $(6 \times 5 = 30)$

Part C

Answer any two questions.

Each question carries 15 marks.

- 22. Explain the concept of recycling of organic wastes with respect to the integration of aquaculture with animal husbandry practices. Mention the major advantages.
- 23. Explain the site selection parameters for pond fish culture. Explain the different soil quality parameters affecting pond fish culture.
- 24. Explain the strucure of a bund. Describe the construction of bunds or embankments in pond culture.
- 25. Describe the morphology of crabs and lobsters. Explain the classification of candidate species involved in aquaculture.

(2×15=30)

