



QP CODE: 19101154



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

2017 Admission (Reappearance)

61C2B40D

Maximum Marks: 80

Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries **2** marks.

1. What are the different types of Freshwater aquaculture?
2. What are Oxidation ponds? Explain briefly.
3. Explain shear strength of soil and percolation.
4. Comment on the importance of stocking ponds.
5. Why is fertilisation done in culture ponds?
6. What is meant by stocking?
7. Distinguish between Breeding hapas and Hatching hapas.
8. What is Stocking density? How is stocking density expressed for fishes and prawns?
9. Give the scientific names and families of *Clarius batrachus* and *Heteropneustes fossilis*.
10. What are the characters of larvivorous fishes? Give examples.
11. Why is brackishwaters considered as Nursery grounds for various marine species?
12. What are the major constraints in Reservoir Fisheries?

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Explain the importance of aquaculture as compared to other agricultural systems and Capture Fishery.
14. Distinguish between Monoculture, Monosex culture and Polyculture.
15. Explain the factors to be taken into account for site selection in Pond Fish Culture.





16. Outline in detail, the different steps in the construction of bunds.
17. What are Sluice gates? Explain the different types of sluice gates.
18. Explain Acclimatisation of fishes and its importance?
19. What is Harvesting? Explain different harvesting methods in pond fish culture.
20. Describe the morphology and internal markings of the shells in clams. Explain the classification and identification of common species of clams in aquaculture.
21. Give an account of the major reservoirs in India and their fisheries.

(6×5=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. Describe the different water quality parameters affecting pond fish culture.
24. Explain different procedures for pre stocking management of Aquaculture ponds or pond preparation techniques?
25. Describe the morphology of crabs and lobsters? Explain the classification of candidate species involved in aquaculture.

(2×15=30)

