



QP CODE: 21102553

21102553

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATIONS, OCTOBER 2021

First Semester

B.Sc Zoology Model II Aquaculture

Vocational Course - ZA1VOT01 - PRINCIPLES AND METHODS IN AQUACULTURE

2017 Admission Onwards

6C51BA2B

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Explain Coldwater fish culture with examples.
2. Explain the concept of recycling of organic wastes with reference to Integrated farming.
3. Comment on soil Compaction.
4. Explain the importance of Nursery ponds.
5. Why is fertilisation done in culture ponds?
6. What is meant by stocking?
7. What is Acclimatisation? Why is acclimatisation done in culture ponds?
8. What is Harvesting? Which are the different harvesting methods in culture ponds?
9. What are exotic carps? Give scientific names of any two exotic carps.
10. What are the characters of Mytilidae? Give examples.
11. What are Reservoirs? How are they classified according to size?
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 concept of recycling of organic wastes with respect to Sewage fed Fish Culture.
16. Explain the influence of alkalinity, hardness and ammonia in aquaculture ponds and measures for their management.
17. With the help of suitable diagrams, explain the structure of a bund. How are bunds classified?
18. What is liming? Discuss the role of drying and liming in pond preparation.
19. What is a Hapa? What are the different types of Hapa?
20. Explain Stocking density and the various factors affecting stocking density.
21. What are Larvivorous and Weed Fishes? Explain their ecological significance citing suitable examples.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the site selection parameters for pond fish culture. Explain the different soil quality parameters affecting pond fish culture.
23. What are sluice gates? Explain the different types and fixing of sluice gates.
24. Describe the morphology of a typical penaeid prawn. Explain the classification and candidate species of shrimps and prawns in aquaculture.
25. Explain Brackishwater Aquaculture. Describe the influence of salinity, peculiarities of biota and the influence of tidal range in Brackishwater Aquaculture.

(2×15=30)

