



QP CODE: 19103153

Reg No :

Name :

B.Sc.DEGREE (CBCS) EXAMINATION, NOVEMBER 2019

First Semester

B.Sc Zoology Model II Aquaculture

Vocational Course - ZA1VOT01 - PRINCIPLES AND METHODS IN AQUACULTURE

2017 Admission Onwards

286049E4

Time: 3 Hours

Maximum Marks :80

Part A

*Answer any **ten** questions.*

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

1. Distinguish between On Bottom culture and Off bottom culture with suitable examples.
2. What are the harmful and beneficial effects of sewage on fish culture?
3. Explain Soil Composition.
4. What is berm? What are its advantages?
5. Explain the importance of Nursery ponds.
6. Why is fertilisation done in culture ponds?
7. What is meant by stocking?
8. What is Harvesting? Which are the different harvesting methods in culture ponds?
9. Distinguish between Tergum, Sternum and Pleuron.
10. Distinguish between Green Mussel and brown mussel. Give scientific names of both.
11. Explain spatial and temporal salinity gradients in brackishwaters.
12. Mention the effect of reservoirs on the fish fauna of an area.

(10×2=20)

Part B





Answer any six questions.

Each question carries 5 marks.

13. What are Candidate species in Aquaculture? Explain the requirements for the selection of Candidate species.
14. Distinguish between Monoculture, Monosex culture and Polyculture.
15. Explain pig cum fish culture and poultry cum fish culture, emphasising the principles of Integrated farming.
16. Elaborate on the consequences of different oxygen concentrations and management of dissolved oxygen in aquaculture ponds.
17. Describe the consequences of algal blooms in culture ponds. Suggest controlling measures.
18. Explain Acclimatisation of fishes and its importance.
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 teleost fish. Explain the distinguishing characters and species of carps and catfishes used in aquaculture.
25. What is Reservoir Fisheries? Explain the influence of construction of reservoirs on the wild fish fauna. Explain the important reservoirs in India, their fisheries and problems faced in Reservoir Fisheries.

(2×15=30)

