



QP CODE: 23104748



Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR/IMPROVEMENT/REAPPEARANCE  
EXAMINATIONS, FEBRUARY 2023**

**First Semester**

B.Sc Zoology Model II Aquaculture

**Vocational Course - ZA1VOT01 - PRINCIPLES AND METHODS IN AQUACULTURE**

2017 Admission Onwards

EA9312AC

Time: 3 Hours

Max. Marks : 80

**Part A**

*Answer any **ten** questions.*

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

1. What are salt pans? Explain Salt Pan aquaculture.
2. What are Oxidation ponds? Explain briefly.
3. Explain the variation in the water pH during a day in aquaculture ponds? What are the methods for determining pH?
4. Explain bund and its functions? Distinguish between Peripheral and partition dykes?
5. Explain the importance of Nursery ponds?
6. Comment on the importance of stocking ponds?
7. What are organic and inorganic fertilisers? Illustrate with examples?
8. Distinguish between Breeding hapas and Hatching hapas?
9. Give examples for an indigenous and exotic larvivorous fish, a predatory fish and a weed fish?
10. How can you distinguish between the families Palinuridae and Scyllaridae? 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 concept of integrated farming with respect to Rice Cum Fish culture?
16. Explain the factors to be taken into account for site selection in Pond Fish Culture?
17. Discuss the management practices for acid sulphate soils in aquaculture ponds?
18. Explain Acclimatisation of fishes and its importance?
19. Explain Stocking density and the various factors affecting stocking density?
20. What is Harvesting? Explain different harvesting methods in pond fish culture?
21. Which are the important cold water fishes used in aquaculture? Explain their characters and classification?

(6×5=30)

### **Part C**

*Answer any **two** questions.*

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

22. Explain the different Physical and Chemical soil quality parameters affecting pond fish culture?
23. What are sluice gates? Explain the different types and fixing of sluice gates?
24. Give a comparative account of the morphology of Edible Oysters, Pearl Oysters and Mussels? Explain their classification and the different candidate species 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)

