



QP CODE: 24020101



24020101

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, MAY 2024**

Second Semester

B.Sc Zoology Model II Aquaculture

Vocational Course - ZA2VOT04 - BIOLOGY OF FISHES

2017 ADMISSION ONWARDS

791DE1B5

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Name four types of meristic data used in taxonomic studies.
2. What is operculum ?
3. What is Branchial Chamber?
4. What is a Suprabranchial chamber?
5. What is Hepatic Portal System?
6. Distinguish between Foramen of Munro and Aqueduct of Sylvius.
7. Which are the hormones influencing osmoregulation in fishes?
8. Distinguish between anadromous and catadromous migration with examples.
9. Explain ciliary feeding in bivalves.
10. Explain buccal mass in Cephalopods.
11. Write down the equations for absolute and relative growth rate and explain the terms.
12. Distinguish between dark bands and light bands in growth estimation.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Explain with suitable diagrams the different types of scales seen in fishes.
14. Give a generalized description of a teleost alimentary canal. How does its structure vary according to the feeding habits of the fish?
15. What are the different types of swim bladders in teleosts? Enumerate the functions of the swim bladder.
16. Describe the structure of Visceral arches in teleosts.
17. Discuss swimming activity and types of locomotion in fishes.
18. Give an account of the natural feed of fishes with examples.
19. Explain the different types of feeding exhibited by fishes with suitable examples. Add a note on the natural food of fishes.
20. Define size at first maturity. How is it determined?
21. What is fecundity? Explain different methods for the determination of fecundity in fishes.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. With the help of a neat and labelled diagram, describe the structure and working of the Membranous Labyrinth in Teleosts.
23. What is Parental care? Explain the different types of parental care exhibited by fishes.
24. What are the feeding habits and feeding appendages of prawns? Describe the method of feeding in prawns.
25. What are the different types of reproduction seen in fishes? Elaborate on the different methods of studying reproduction in fishes.

(2×10=20)

