



QP CODE: 21103270



Reg No : .....

Name : .....

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,  
DECEMBER 2021**

**Second Semester**

B.Sc Zoology Model II Aquaculture

**Vocational Course - ZA2VOT04 - BIOLOGY OF FISHES**

2017 ADMISSION ONWARDS

F2CEA05B

Time: 3 Hours

Max. Marks : 60

**Part A**

*Answer any **ten** questions.*

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

1. Name two preservatives of fish used in taxonomic studies.
2. What is head length?
3. What is meant by a branchial aperture?
4. List the functions of the Gas Bladder in Fishes.
5. What are Ampullae of Lorenzini?
6. What is an Olfactory Rosette?
7. Explain glomerular filtrate and Tubular reabsorption?
8. Distinguish between forward or effective stroke and backward or non effective stroke in the swimming of fishes?
9. What is the difference between basic food and secondary food of fishes?
10. Name the feeding organs in cephalopods.
11. Define size at first maturity.
12. What are the preservatives used for storing ovaries for fecundity determination?

(10×1=10)

**Part B**

*Answer any **six** questions.*

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





13. Describe the variations in mouth, teeth, snout and jaws in taxonomic studies.
14. Describe the accessory respiratory organs of Channa, Periophthalmu and Dipnoi.
15. Describe the Venous system in teleosts with diagrams.
16. Describe the structure of Mandibular and Hyoid arches in teleosts. Add a note on the skeleton of paired fins.
17. Explain the various types of nests built by fishes exhibiting parental care.
18. Explain the different types of feeding exhibited by fishes with suitable examples. Add a note on the natural food of fishes.
19. Discuss the structure of the gills in bivalves. How does it facilitate feeding?
20. Explain cube law. Distinguish between a) Absolute and Relative growth b) Isometric and Allometric growth.
21. Explain the analysis of growth in fishes using hard parts.

(6×5=30)

### **Part C**

*Answer any **two** questions.*

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

22. Describe the Nervous system in Teleost fishes with the help of suitable diagrams.
23. What is Fish Migration? Describe the different types of migrations seen in fishes. Add a note on the causes ,advantages and factors influencing migration.
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)

