



QP CODE: 20101230



20101230

Reg No :

Name :

B.Sc. DEGREE (CBCS) EXAMINATION, NOVEMBER 2020

Second Semester

B.Sc Zoology Model II Aquaculture

Vocational Course - ZA2VOT04 - BIOLOGY OF FISHES

2017 ADMISSION ONWARDS

940D9C1F

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. Name two modifications seen in scales of teleosts.
2. Distinguish between cycloid scale and ctenoid scale
3. What is Gullet ?
4. What is meant by a branchial aperture?
5. Explain the parts of Appendicular skeleton in teleosts?
6. What is Aqueduct of Sylvius?
7. Explain the action of chloride cells in freshwater and marine teleosts
8. What is oral incubation? Give examples?
9. What are Gnathobases?
10. Name the feeding organs in cephalopods?
11. What is Ova diameter frequency study?
12. What is spawning season? How can it be determined

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. Describe briefly the different methods for the collection of taxonomic data?
14. Describe labyrinthine organ and arborescent organ with suitable diagrams





15. With suitable diagrams, describe the structure of the heart in teleosts.
16. Explain with diagrams, Neuromast organs, and Ampullae of Lorenzini.
17. What are the different types of aggregations exhibited by fishes? Comment on the properties of shoals?
18. Give an account of the natural feed of fishes with examples?
19. Discuss the feeding habits and method of feeding in bivalves?
20. Explain cube law? Distinguish between
a.) Absolute and Relative growth b.) Isometric and Allometric growth
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. Describe the different types of swim bladders in teleosts? Explain the functions of the swim bladder in teleosts?
23. Describe swimming activity and types of locomotion in fishes? Add a note on the muscles involved in locomotion?
24. What is the natural food of fishes? Describe the feeding habits and type of feeding in fishes?
25. Describe the various direct methods of growth determination in fishes?
Add notes on allometric and isometric growth, absolute and relative growth?
(2×10=20)

