

**2023/TDC(CBCS)/ODD/SEM/
ZOODSE-502T/036**

TDC (CBCS) Odd Semester Exam., 2023

ZOOLOGY

(5th Semester)

Course No. : ZOODSE-502T

(Fish and Fisheries)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

**The figures in the margin indicate full marks
for the questions**

SECTION—A

**Answer fifteen questions, selecting any three from
each Unit : $1 \times 15 = 15$**

UNIT—I

1. Give one example of elasmobranchs.

2. What is clasper?

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3. What is ichthyology?

4. Give one example of Chondrichthyes.

UNIT—II

5. What do you mean by hydrodynamics?

6. Define osmoregulation.

7. What do you mean by bioluminescence?

8. Name one fish species which exhibit parental care.

UNIT—III

9. Write the full form of GIS.

10. What do you mean by catamaran?

11. What is lacustrine fishery?

12. What is the suitable pH range for freshwater pisciculture?

UNIT—IV

13. What is pen culture?

14. What do you mean by hypophysation?

15. What is intensive pisciculture?

16. State the importance of gonadotropins.

UNIT—V

17. What is the full form of EUS?

18. Name one bacterial fish disease.

19. What do you mean by isinglass?

20. What is preservation?

SECTION—B

Answer five questions, selecting one from each

Unit : $2 \times 5 = 10$

UNIT—I

21. State the anatomical and morphological differences between marine and fresh water fish.

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22. What do you mean by catfish? Give example.

UNIT—II

23. State the function of swim bladder.

24. Write a note on the significance of ctenoid scale.

UNIT—III

25. Give at least two causes of depletion of freshwater pisciculture.

26. Name at least four tributaries of Barak River system.

UNIT—IV

27. Give the scientific name of two aquarium fishes.

28. Define composite fish culture.

UNIT—V

29. Name the phylum and class to which fish louse belong.

30. Name at least two preservatives that are widely used in fish processing.

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(Continued)

(5)

SECTION—C

Answer *five* questions, selecting *one* from each Unit : 5×5=25

UNIT—I

31. Discuss the characteristic features of Dipnoi with example.

32. Write a note on feeding habit of Pisces with example.

UNIT—II

33. Discuss in detail the patterns of parental care in fishes with example.

34. Write a detailed note on osmoregulation in marine fishes.

UNIT—III

35. Write a note on 'fishery law and regulation' in India.

36. Discuss in detail the different fishing craft and gears used in Barak Valley.

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UNIT—IV

37. Discuss the advantages and disadvantages of pen and cage cultures.

38. Write notes on the following :

(a) Management of fin fish hatcheries

(b) Brood stock management

UNIT—V

39. Discuss the different types of parasitic diseases found in fishes with suitable example.

40. Describe the different methods used in fish preservation for harvested fishes.

UNIT—III