

DSE III [Fish and Fisheries]

Answer the following questions in 2-3 sentences (1.5marks).

1. Name the different types of fins .
2. What do you mean by placoid scales ? Give suitable diagram.
3. How does scales used for determination of age of fish?
4. How do gaseous exchange in fish takes place?
5. Define counter current exchange in fishes.
6. Name some fishing gears.
7. Name types of nets used in fisheries.
8. Explain polyculture.
9. Name the caudal fins in fishes .
10. What are heterocercal tails and which fish contains it?
11. What are transgenic fishes?
12. What do you mean by composite fish culture ?
13. What is red pest disease in fish?
14. Define aquaculture.
15. Name some fishes having electric organs.

Answer the following questions in 75 words (2marks).

1. Discuss the role of swim bladder in fishes .
2. Define schooling in fishes.
3. What do you mean by fish migration ?
4. What is bioluminescence?
5. What are mechanoreceptors in fishes?
6. Write a note on fishing crafts.
7. Name some fishes used for composite fish culture in India .
8. Distinguish between inland and marine fisheries .
9. What are the factors associated with depletion of fisheries resources?

10. What do you mean by aquarium?
11. What is the meaning of sustainable agriculture?
12. Differentiate between extensive and intensive fish culture.
13. Discuss polyculture with suitable examples.
14. What are various fishery byproducts?
15. Describe types of caudal fins.
16. What is hydrodynamics?

Answer the following questions in 500 words (6marks).

1. Classify various types of fishes upto classes.
2. Discuss various types of fins and their modifications .
3. Discuss the various environmental factors influencing the seasonal variation in fish.
4. Explain various fisheries laws and regulations.
5. Elucidate brood stock management in India.
6. Explain preparation and maintenance of fish aquarium.
7. What do you mean by extensive , semi extensive and intensive culture of fish? Explain with example.
8. Explain various types of fish diseases.
9. Explain zebra fish as a model organism in research.
10. Discuss various fish preservation techniques.
11. Explain locomotion in fish in details.
12. Describe electric organs in fishes with suitable example.
13. What are various reproductive strategies in fishes?
14. Explain schooling and migration in details.
15. Describe transgenic fish in details.
16. Explain induced breeding in fish with suitable example.