

2023
M.Sc.
Fourth Semester
DISCIPLINE SPECIFIC ELECTIVE – 03
ZOOLOGY
Course Code: MZOD 4.11(B)
(Fish Biology - II)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Explain the various types of capture fishery resources of India. 14
2. Discuss the importance of estuarine fisheries in India. 14

UNIT-II

3. Give an account of the principle of preservation, handling and packing of fish for marketing. 14
4. Write a note on the following: 7×2=14
 - (a) Importance of fish preservation
 - (b) Fish protein and liver oils

UNIT-III

5. Explain the extensive, semi extensive, and intensive culture of fish. 14
6. Describe the integrated fish farming. Briefly discuss the importance of sewage fed fisheries for the developing countries like India. 9+5=14

UNIT-IV

7. Discuss the general principle and various steps involved in feed formulation. Add a note on the classification of feed ingredients. 9+5=14

8. Write a note on the following: 7×2=14
(a) Different types of feed available for hatchlings
(b) Nutrient requirement of fish

UNIT-V

9. Explain the following: 7×2=14
(a) Biological indicators and indices of water quality
(b) Algal bloom and environmental microflora
10. Describe the techniques involved in isolation and culture of various types of bacteria. Add a note on sanitation in aquaculture systems. 10+4=14
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