

**2024**  
**B.A./B.Sc.**  
**Sixth Semester**  
DISCIPLINE SPECIFIC ELECTIVE – 3  
**ZOOLOGY**  
*Course Code: ZOD 6.11*  
(Fish & Fisheries)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Give the general characters of fish and classify up to classes with examples. 5+9=14
2. Describe the classification of fishes based on feeding habits and manner of reproduction. 7+7=14

**UNIT-II**

3. Explain the role of gills in gas exchange. Add a note on the swim bladder function. 10+4=14
4. (a) Write a note on bioluminescence. 7  
(b) Explain mechanoreceptors. 7

**UNIT-III**

5. Explain the inland fishery resources of India. 14
6. Discuss the fisheries law and regulation in India. 14

**UNIT-IV**

7. Bring out the difference between extensive and intensive culture of fish. Add a note on the management of fisheries. 10+4=14
8. Discuss how harvested fish are preserved and processed. 14

## UNIT-V

9. What is transgenic fish? Explain why zebrafish is used as a model organism in research. 2+12=14
10. Give an account on the induced breeding and state its importance. 10+4=14
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