

**2022**  
**B.A./B.Sc.**  
**First Semester**  
GENERIC ELECTIVE- 1  
**ZOOLOGY**  
*Course Code: ZOG 1.11*  
(Aquatic Biology)

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

*Pass Mark: 28*

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

**UNIT-I**

1. Give a brief account on freshwater ecosystem in lakes. 14
2. Write a note on the following: 7×2=14
  - (a) Estuaries
  - (b) Marine benthic zone

**UNIT-II**

3. Describe the effect of light and temperature in freshwater body. Add a note on thermal stratification of lake. 8+6=14
4. Define nutrient cycle. Explain the nutrient cycle of phosphorus in lake with a neat diagram. 1+13=14

**UNIT-III**

5. Define stream. Explain the different stages of stream development. 1+13=14
6. Explain in detail about adaptive modification in hill stream fishes. 14

**UNIT-IV**

7. Write a note on the following: 7×2=14
  - (a) Salinity of sea water
  - (b) Sea weed

8. Give an account on the adaptation of deep-sea organism. 14

### UNIT-V

9. What is eutrophication? Describe the cause and effect of eutrophication. 2+6+6=14

10. Write a note on the following: 7×2=14

(a) Water quality assessment by COD

(b) Cause and effect of oil spill

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