

[ 4 ]

3. Describe your knowledge on Global water crisis and its conservation strategies.

Or

Describe the interplay of light and temperature on fresh water habitat ecology.

4. Describe about the existence and significance of Respiratory gases of Lentic habitat.

Or

Discuss how nutrient cycling is achieved in Lotic habitat.

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G-3/345/21

Roll No.....

### III Semester Examination, April-2021

**M.Sc.**

**ZOOLOGY**

**Paper III**

(Limnology)

Time : 3 Hours ]

[Maximum Marks : 80

**Note** : *All questions are compulsory. Question Paper comprises of 3 sections. Section A is objective type/Multiple Choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.*

**SECTION 'A'**

**1×8=8**

*(Objective Type Questions)*

*Choose the correct answer :*

1. Name the collective term for the organisms in a lentic water system that float on the top of water.
2. What do you mean by spring overturn ?

[ 2 ]

3. What do you mean by Brackish water ?
4. To which class Daphnia belong ?
5. Which zone is not the part Euphotic zone in lake.
6. Name the type of lake which is rich in humus, poor in faunal growth and oxygen content.
7. What is the chemical cause of permanent and temporary hardness of water ?
8. Which group of organisms are called transformers by Ecologists ?

**SECTION 'B'**

**4×6=24**

*(Short Answer Type Questions)*

**Note :** Answer the following questions in 250 words.

1. Define thermal stratification of pond.

Or

Define turbidity and its effect on aquatic organisms.

2. Point out the differences between Lentic and Lotic habitat.

Or

Write about Positive and Negative Estuaries.

**G-3/345/21**

[ 3 ]

3. Write about the role of water movements in Lake.

Or

Write about the role of light on faunal growth.

4. Write about the types of organisms with narrow and wide range of tolerance for salts.

Or

Write about seasonal distribution of Nitrogen in aquatic environment.

**SECTION 'C'**

**12×4=48**

*(Long Answer Type Questions)*

**Note :** Answer the following questions in 500 words.

1. Write about causes, effects and control measures of Eutrophication.

Or

Write about the physical properties of water.

2. Describe about fresh water Biota.

Or

Write about major estuaries of India.

**G-3/345/21**

P. T. O.