

H-4/08(B)/22

Roll No.

IV Semester Examination, 2022**M.Sc.****BOTANY**

Paper IV

(Limnology-II)

Time : 3 Hours]

[Max. 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/Multiple Type Questions)***Choose the correct answer :***1.** Phytoplanktons are :

- (a) Producer of forest
- (b) Primary producer of lake ecosystem
- (c) Decomposers of Land ecosystem
- (d) Consumer of marine ecosystem

P.T.O.

2. A plankton is :

- (a) Layer of aquatics
- (b) Sea scum
- (c) Floating vegetation
- (d) Floating microscopic plants and animals

3. Eutrophic Lakes means :

- (a) Lake poor in nutrients
- (b) Lake rich in nutrients
- (c) Lake poor in flora and fauna
- (d) Lake lacking water

4. Pollution can be controlled by :

- (a) Sewage treatment
- (b) Manufacturing electrically operated vehicles
- (c) By checking atomic blast
- (d) All the above

5. Air pollution causes :

- (a) Global warming
- (b) Respiratory problem
- (c) Soil erosion
- (d) None of above

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6. Green house gas is :

- (a) N₂ (b) O₂
(c) CH₄ (d) CO₂

7. The process of nutrient enrichment in environment termed as :

- (a) Eutrophication (b) Limiting Nutrient
(c) Enrichement (d) None of these

8. The percentage of nitrogen in atmosphere is :

- (a) 21% (b) 78%
(c) 12% (d) 87%

SECTION B

6×4=24

(Short Answer Type Questions)

Note : Attempt *one* question from each unit.

Unit-I

1. Write a note on classification of phytoplankton.

Or

Write a concise note on spatial distribution of phytoplankton.

Unit-II

2. Write a note on predation of algae.

Or

Write a note on categories of aquatic trither plants.

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Unit-III

3. Write a note on chemical oxygen demand (COD) ?

Or

Describe the estimation of primary productivity ?

Unit-IV

4. Write a note on agriculture sewage.

Or

Describe the Industrial effluent.

SECTION C

12×4=48

(Long Answer Type Questions)

Note : Attempt *one* question from each unit.

Unit-I

1. Write a detail note on phytoplankton and their inter-relationship with zooplankton.

Or

Write a detail note on seasonal distribution and species composition of phytoplankton.

Unit-II

2. Describe the Ecological classification of squatic plants and their significance.

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Or

Write a detail note on impact of human being on algae.

Unit-III

- 3.** Discuss the primary production in fresh water lakes.

Or

Discuss the aquatic flora and fauna in an aquatic environment.

Unit-IV

- 4.** Discuss the causes of pollution of aquatic resources and their management.

Or

Define the sewage and its composition in details.

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