

G-4/412(B)/21

Roll No.

M.Sc. IV Semester Examination, 2021**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 Questions)**

1. In terms of size, which of the following plankton is smallest ?
 (a) Pico plankton (b) Nano plankton
 (c) Net plankton (d) Micro plankton
2. Phytobenthos attached to the rock are known as :
 (a) Epiphyton (b) Epipsammon
 (c) Epilithon (d) Metaphyton
3. Which of the following is a surface floating plant ?
 (a) Ceratophyllum (b) Eicchornia
 (c) Typha (d) Nymphaea

P.T.O.

4. Association of Azolla with Anabaena is an example of :
 (a) Symbiosis (b) Parasitism
 (c) Predation (d) Competition
5. C.O.D. is determined by :
 (a) Winkler method
 (b) Azide Modification method
 (c) Reflux method
 (d) Diazotization method
6. Which of the following lake has maximum primary production ?
 (a) Oligotrophic lake (b) Mesotrophic lake
 (c) Eutrophic lake (d) Hypotrophic lake
7. In which step of sewage treatment, aerobic bacteria are used ?
 (a) Primary treatment
 (b) Secondary treatment
 (c) Tertiary treatment
 (d) All of these
8. The Water Prevention and Control of Pollution Act was enacted in :
 (a) 1977 (b) 1974
 (c) 1988 (d) 2003

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SECTION B**4×6=24****(Short Answer Type Questions)****Note :** *Attempt one question from each unit.***Unit-I**

1. Write a note on classification of phytobenthos.

Or

Write a concise note on Algal bloom.

Unit-II

2. Describe the categories of aquatic higher plants.

Or

Write a brief note on parasitism of Algae.

Unit-III

3. Explain the B.O.D. and its determination.

Or

Discuss the primary productivity in fresh water lakes.

Unit-IV

4. Write a note on Aquatic resource management.

Or

Describe the causes of pollution of aquatic resources.

SECTION C**12×4=48****(Long Answer Type Questions)****Note :** *Attempt one question from each unit.***Unit-I**

1. Write a detail note on classification of phytoplanktons.

Or

Write an account on aquatic insects and their environmental significance.

Unit-II

2. Discuss the biotic relationship and interaction among organisms.

Or

Write an essay on lake bacteria.

Unit-III

3. Discuss the use and misuse of Inland waters.

Or

Describe the aquatic flora as Bioindicators of water quality.

Unit-IV

4. Describe the methods of sewage treatment.

Or

Discuss the means of aquatic resource conservation.