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Total Pages—03
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B.F.Sc./2nd Sem/
BFSC-201/23

2023

BFSC 2nd Semester Examination

Limnology

PAPER — BFSC-201

Full Marks : 50

Time : 2 hours



The figures in the right-hand margin indicate marks.

Candidates are required to give their answers
in their own words as far as practicable.

Illustrate the answers wherever necessary.

1. Answer any **ten** from the following questions :
2×10=20

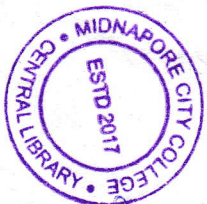
- (a) Define limnology.
- (b) What is thermocline zone?
- (c) What do you mean by Epifauna and Infauna?
- (d) Briefly explain the relationship between phytoplankton and zooplankton.

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(Turn Over)

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(2)

- (e) What are the differences between photic zone and aphotic zone?
- (f) What is deep water?
- (g) Transparent or clear water is not suitable for fish culture. Explain.
- (h) Define supra-neuston and infra-neuston with example.
- (i) What do you mean by primary production?
- (j) Define nekton with example.
- (k) Mention scientific and common names of two submerged aquatic plants.
- (l) What is biological equilibrium?
- (m) Define plankton with example.
- (n) Compare between GPP and NPP.
- (o) What is Periphyton? Cite example.

2. Answer any six from the following questions :
5×6=30

- (a) Briefly narrate the biological productivity of lake.
- (b) Classify different types of plankton based on their size.
- (c) Briefly describe thermal stratification of lake.
- (d) Discuss the ecological role of zooplankton.

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(Continued)

(3)

- (e) Add a note on the classification of lake based on temperature.
- (f) Mention the role of plankton in aquatic productivity.
- (g) Classify different types of benthos according to their size.
- (h) Discuss physico-chemical characteristics of freshwater ecosystem.
- (i) Define aquatic macrophytes. Classify it depending on habitat with examples.
1+4=5
- (j) Add a note on structure of freshwater ecosystem.

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