



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

2nd Semester Examination 2022

B.F.Sc.

PAPER—BFSC-201

LIMNOLOGY

Full Marks : 50

Time : 2 Hours

The figures in the right-hand margin indicate full 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 questions.

10×2

(a) What is open water ?

(b) Define marginal aquatic weeds with examples.

(c) State on eutrophic lake.

(d) Define mero-plankton with examples.

- (e) What is Gross Primary Productivity (GPP) ?
- (f) Distinguish between Macrobenthos and Microbenthos organisms.
- (g) State the distinctive features of lentic environment.
- (h) What is trophic level ?
- (i) Define profundal zone.
- (j) What is limnetic area ?
- (k) State on the extremophilic animal.
- (l) What is biological soil crust ?
- (m) Does lentic ecosystem have less oxygen ? Why ?
- (n) Define swamps with examples.
- (o) State the functions of soil epifauna.

2. Answer any six questions.

6×5

- (a) Briefly explain the ecological role of phytoplankton.
- (b) Briefly narrate the distribution of riverine ecosystem in India.
- (c) Discuss the circulation process of different food materials in aquatic ecosystem.
- (d) Describe the classification of lake based on biotic potential and trophic dynamics.

- (e) Briefly explain the process of Ecological succession.
 - (f) How does differ lentic ecosystem from lotic ecosystem?
 - (g) State the ecological role of macrovegetation.
 - (h) How would you explain thermal stratification of a lake?
 - (i) Classify Zooplankton based on size groups. Cite example of each group.
 - (j) Briefly explain seasonal changes of body forms of planktonic organisms with examples.
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