

2023

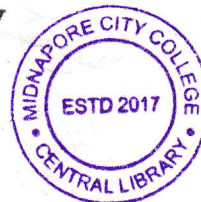
BFSC 2nd Semester Examination

Aquatic Ecology and Biodiversity

PAPER — BFSC-202

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) What is the difference between ecology and ecosystem?
- (b) What is CBD?
- (c) What do you mean by detritus food chain?
- (d) Differentiate between invasive and exotic species.

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(Turn Over)



(2)

- (e) Write down two important threats of aquatic biodiversity.
- (f) Define Turtle Exclusion Device (TED).
- (g) What is homeostasis?
- (h) What do you mean by pyramid of biomass?
- (i) What is edge species? Give example.
- (j) Write the differences between ex-situ and in-situ conservations.
- (k) Write down two names of oxbow lakes in India.
- (l) What is food web?
- (m) What do you mean by commensalism?
- (n) When will a species be considered a weed? Comment on it.
- (o) State ecological succession in aquatic ecosystem.

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

- (a) What is ecological niche? Write down its significance.
- (b) Describe nitrogen cycle in aquatic environment with flow diagram.

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(Continued)

(3)

- (c) Write a short note on mangroves ecosystem with examples.
- (d) Shortly discuss predator food chain with examples.
- (e) Briefly discuss universal model of energy flow with diagram.
- (f) Describe in brief the "ecological pyramid".
- (g) Explain symbiosis relationship with examples.
- (h) Discuss different modes of aquatic biodiversity conservation.
- (i) State the impact of introduction of exotic species in India.
- (j) Write a note on 'Grazing food chain and Detritus food chain'.

