



বিদ্যাসাগর বিশ্ববিদ্যালয়

**VIDYASAGAR UNIVERSITY**

**2nd Semester Examination 2022**

**B.F.Sc.**

**PAPER—BFSC-202**

**AQUATIC ECOLOGY, BIODIVERSITY**

*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 the differences between ecology and ecosystem ?
- (b) What is syn ecology ?
- (c) What do you mean by Parasitic food chain ?
- (d) Differentiate between endemic and exotic species.

- (e) What is biodiversity hot spot?
- (f) What are the reasons behind the vast diversity in Indian ecosystem?
- (g) How can the loss of one species lead to extinction of another?
- (h) Write the name of two artificial ecosystems.
- (i) What is ecotone?
- (j) Write the name of four effective fishing gears used in coastal fishing.
- (k) Differences between autotrophs and heterotrophs.
- (l) Why estuarine ecosystem is more productive than other aquatic ecosystem?
- (m) Write differences between marine park and sanctuaries.
- (n) Define invasive species. Give two examples.
- (o) What are the ecological factors?

**2.** Answer any six questions.

6×5

- (a) How does climate change impact on biodiversity?
- (b) Give an idea about law of thermodynamics.
- (c) Discuss different types of ecological pyramids in aquatic environment.
- (d) Shortly discuss the concept of limiting factors.
- (e) Write a short note on coral reef ecosystem.

- (f) Describe nitrogen cycle in aquatic environment with flow diagram.
- (g) Write down various laws and regulations executed to protect bio diversity.
- (h) Write a short note on host parasite relationship.
- (i) Shortly discuss detritus food chain.
- (j) Explain prey-predator relationship with example.

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