

M.Sc. (Botany) Semester - 1 (CBCS) Examination**Nov/Dec - 2022 [OLD COURSE]****BIODIVERSITY AND BIOSYSTEMATICS(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que. 1 Answer the Following. (Any seven out of ten question.) (14)

- (1) How climate change affect biodiversity?
- (2) List out threats to biological diversity.
- (3) What is rehabilitation?
- (4) Why should we learn microorganisms?
- (5) Explain any three akaryotes.
- (6) Explain symmetry and its types.
- (7) What is native species?
- (8) What is super class? Give example.
- (9) Draw clasps and write its function.
- (10) Explain diatoms.

Que. 2 Answer the Following. (Any two out of three) (14)

- (1) Describe conservation and sustainable use of biodiversity.
- (2) Write short note on ecosystem monitoring and rehabilitation.
- (3) Describe in detail CBD mechanisms, working bodies and national action plan.

Que. 3 Answer the Following. (14)

- (1) Describe classification of microbes.
- (2) Explain general features of archaea.

[OR]**Que. 3 Answer the Following.**

- (1) Make a note on bacteria, cyanobacteria and prokaryotes.
- (2) Explain about classification of zygomycetes, ascomycetes, basidiomycetes and mycorrhizea.

Que. 4 Answer the Following. (14)**Answer any two out of three.****[10]**

- (1) Give differences in between mosses and ferns.
- (2) Write principles of systematics and classification of plants.
- (3) Make a note on dinoflagellates, lichens and algae.

Answer any one out of two.**[04]**

- (1) Write a note on classification of green protists like diatom, dinoflagellates.
- (2) Write general features and classification of algae.

Que. 5 Write short note on any two out of four. (14)

- (1) Make a note on: principles of systematics and classification of animals.
- (2) Describe classification of protista.
- (3) Explain lower chordates.
- (4) Write classification of phylum arthropoda.
