

**M.Sc. (Botany) Semester - 1 (CBCS) Examination**  
**OCT/NOV-2024 (AS PER SYLLABUS YEAR JUNE-2018)**  
**BIODIVERSITY AND BIOSYSTEMATICS(CORE)**

Time: 2:30 Hours

Marks: 70

**Instructions:**

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

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

- (1) Write about eco-tourism.
- (2) Write about ecosystem monitoring.
- (3) Write about gymnosperm.
- (4) Draw a lotic food web.
- (5) Describe diatom.
- (6) Draw differences between gram- positive and gram-negative bacteria.
- (7) What is medusa? Explain with examples.
- (8) Describe rhizome and rhizoids.
- (9) Give examples of endangered species.
- (10) Draw mouthparts of *Musca d.*

**Que. 2 Write short note on any two out of Three questions. (14)**

- (2.1) Draw a classification chart of phylum Chordata and explain each class with example.
- (2.2) Explain any three classes of hemichordata.
- (2.3) Write conservation strategies.

**Que. 3 Answer the Following. (14)**

- (A) Write a note on common parasites and pathogens of animals. (05)
- (B) Write a note on organisms of health importance. (05)
- (C) Describe prokaryotes. (04)

**OR**

- (A) Write a note on worms as parasites and cyanobacteria. (07)
- (B) Write a note on protists: slime molds (07)

**Que. 4 Answer the Following. (14)**

**A) Any two out of three questions (5 marks each)**

- (1) Describe CBD mechanisms and working bodies.
- (2) Basic concepts of biodiversity, conservation and sustainable use of biodiversity.
- (3) Write about ecosystem monitoring and rehabilitation.

**B) Any one out of two questions (4 marks)**

- (1) Describe climate change and biodiversity.
- (2) Explain habitat destruction, invasive species, disease and overexploitation.

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

- (5.1) Mosses
- (5.2) Ferns
- (5.3) Merits and demerits of Bentham & Hooker classification.
- (5.4) Diatom, dinoflagellates and lichens

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