

M.Sc. (Zoology) 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.

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
