

**M.Sc. (Zoology) Semester - 1 (CBCS) Examination**  
**OCT/NOV-2024 (AS PER SYLLABUS YEAR JUNE-2023)**  
**Biodiversity & Biosystematics (Core (New-23))**

**Time: 2:30 Hours**

**Marks: 70**

**Instructions:**

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

**Que. 1 Answer any seven out of ten. (14)**

- (1) What is unique about hermit crabs?
- (2) What is over-exploitation?
- (3) Describe differences between ecosystem diversity and species diversity.
- (4) Draw classification chart of chordate.
- (5) Define characteristics of mosses.
- (6) Describe the Three kingdom classification.
- (7) What is importance of lichens in ecology?
- (8) What are Akaryotes? Describe in brief.

**Que. 2 Answer any two out of three. (14)**

- (2.1) Describe threats to biological diversity.
- (2.2) Write about: Eco-tourism possibilities in Gujarat.
- (2.3) Explain: Genetic, species and ecological diversity.

**Que. 3 Answer any two out of three. (14)**

- (3.1) Write about basics of animal classification and rare, endangered species.
- (3.2) Describe general characteristics of phylum Arthropoda with diagram.
- (3.3) Explain Mollusca.

**Que. 4 Answer any two out of three. (14)**

- (4.1) Make a note on: Principles of systematics and classification of plants.
- (4.2) Explain the general feature and classification of Lichen & algae.
- (4.3) Give differences in between angiosperms and gymnosperm.

**Que. 5 Answer any two out of three. (14)**

- (5.1) Write about principles of systematics and classification of microbes.
- (5.2) Write a short note on Cellular and plasmodial Slime mold.
- (5.3) Describe difference between Archea, bacteria and cyanobacteria.

\*\*\*\*\*