

**M.Sc. (Micro) Semester - 1 (CBCS) Examination**  
**Nov/Dec-2023 (SYLLABUS YEAR JUNE-2023)**  
**Biodiversity & 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 any seven out of ten.      (14)**
- (1) Why biodiversity is important?
  - (2) Which are the ecotourism sites in Gujarat?
  - (3) Describe differences between ecosystem diversity and species diversity.
  - (4) Write about cyanobacteria and prokaryotes.
  - (5) Draw *Tenia solium*.
  - (6) What is ectoparasites?
  - (7) Write about fern allies.
  - (8) What are biodiversity hotspots?
  - (9) Draw locomotory organs of protozoa.
  - (10) Write about mesoglea.
- Que. 2      Answer any two out of three.      (14)**
- (1) Describe threats to biological diversity.
  - (2) Explain structure and functions of the convention on biological Diversity.
  - (3) Write about: Conservation and sustainable use of biodiversity.
- Que. 3      Answer any two out of three.      (14)**
- (1) What describe a few common parasites and pathogens of humans.
  - (2) Write a short note on bacteria.
  - (3) Write principles of systematics and classification of microbes.
- Que. 4      Answer any two out of three.      (14)**
- (1) Make a note on: classification of plants.
  - (2) Write short note on: lichens and algae.
  - (3) Give differences in between gymnosperm and angiosperms
- Que. 5      Answer any two out of three.      (14)**
- (1) Write about rare, endangered species and conservation strategies.
  - (2) Describe general characteristics of phylum Arthropoda with diagram.
  - (3) Explain Aves.

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