

M.Sc. (Micro) Semester - 1 (CBCS) Examination**Nov/Dec - 2022 [NEW 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) Why is biodiversity important?
 - (2) Write about mesoglea.
 - (3) Explain about terrestrial biodiversity in short.
 - (4) Write any recent event about climate change and biodiversity.
 - (5) Describe biodiversity hotspots.
 - (6) Give differences in between diploblastic and triploblastic.
 - (7) What are ciliates? Give examples.
 - (8) Justify the sentence "Climate change will hit the endemic species hardest".
 - (9) Explain cyanobacteria.
 - (10) Which are three main objectives of convention (CBD)?
- Que. 2 Answer the Following. (Any two out of three) (14)**
- (1) Describe basic concepts of biodiversity and types of diversity.
 - (2) Write about eco-tourism and marine biodiversity.
 - (3) Explain threats to biological diversity and CBD.
- Que. 3 Answer the Following. (14)**
- (1) Describe principles of systematics and classification of microbes. [5]
 - (2) Describe virus. [5]
 - (3) Write a detail note on archaea & bacteria [4]
- [OR]**
- Que. 3 Answer the Following.**
- (1) Describe organisms of health importance.
 - (2) Explain about general features of prokaryotes and fungus.
- Que. 4 Answer the Following. (14)**
- Answer any two out of three. [10]**
- (1) Write principles of systematics and classification of plants.
 - (2) Give differences in between Gymnosperm and Angiosperms.
 - (3) Make a note on lichens.
- Answer any one out of two. [4]**
- (1) Write a note on non-seed tracheophytes.
 - (2) Write general features and classification of green protists.
- Que. 5 Write short note on any two out of four. (14)**
- (1) Give differences in between amphibia and aves.
 - (2) Explain any three classes of phylum mollusca.
 - (3) Give differences in between cartilaginous fishes and bony fishes.
 - (4) Draw a classification chart of phylum arthropoda and explain with example.
