

M.Sc. (Botany) 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.

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- 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.
