

M.Sc. (Botany) Semester - 1 (CBCS) Examination
Oct/Nov. -2019 - [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) Make a list of "Threats to biological diversity".
 - (2) In which animals the alimentary canal is 'U' shaped?
 - (3) The member of which phylum are exclusively marine?
 - (4) What is over exploitation?
 - (5) What are the industrial applications of fungus?
 - (6) Just draw life cycle of mosquito.
 - (7) Explain cyanobacteria.
 - (8) What is metamorphosis?
 - (9) Why classification of plants is important?
 - (10) What is the oral and aboral surfaces? In which phylum it is found?
- Que. 2 Answer the Following. (Any two out of three)** **(14)**
- (1) Describe basic concept of biodiversity and elaborate with examples.
 - (2) Make a note on "Ecotourism and marine biodiversity".
 - (3) Explain three types of biodiversity.
- Que. 3 Answer the Following.** **(14)**
- (1) Comment on: Principles of systematics and classification of microbes
 - (2) Describe Cellular slime moulds and plasmodial slime moulds.
- [OR]**
- Que. 3 Answer the Following.**
- (1) Write short note on organisms of health importance.
 - (2) Explain about any two: akaryotes, virus, archea, bacteria.
- Que. 4 Answer the Following. (Any two out of three)** **(14)**
- (1) Write differences in between Mosses and ferns.
 - (2) Write any five similarities and differences in between Gymnosperm and Angiosperms
 - (3) Make a note on diatom and algae.
- Que. 5 Write short note on any two out of four.** **(14)**
- (1) Draw a classification chart of phylum arthropoda and explain.
 - (2) Explain any three classes of phylum Mollusca.
 - (3) Write general characteristics and classification of phylum Platyhelminthes.
 - (4) Compare any three classes of higher vertebrates.
