



DCU-003-1181003

Seat No. _____

M. Sc. (Sem. I) (CBCS) (W.E.F. 2016) Examination

August - 2022

Biodiversity & Biosystematics : ZOOL-103

Faculty Code : 003

Subject Code : 1181003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instruction : Attempt any five.

1 Answer the following very briefly : **2×7=14**

- (a) Define term systematics
- (b) What is domain?
- (c) Examples of Diatoms and Dinoflagellates
- (d) Define biodiversity with examples
- (e) Write general features of Phylum protista
- (f) Salient features of lichens
- (g) Classification of phylum vertebrata

2 Answer the following very briefly : **2×7=14**

- (a) Define biodiversity with examples
- (b) Main features of coelentrata
- (c) Write main features of Eubacteria
- (d) Main characters of fungi
- (e) Significance of competition
- (f) What are tube-feet? Give their functions
- (g) What is canal system? Give their functions

3 Answer of the following : **7+7=14**

- (a) Classify annelida with specific characters.
- (b) Briefly describe the classification of phylum porifera.

- 4 Answer of the following : 7+7=14
- (a) Write a short note on the classification of phylum platyhelminthes.
 - (b) Write a short note on the basic features in different classes of phylum Mollusca.
- 5 Answer the following : 7+7=14
- (a) Write a note on the evolution and classification of phylum Aschelminthes.
 - (b) Write a note on the systematics of Protista with examples.
- 6 Answer the following : 7+7=14
- (a) Write the systematics of algae with examples.
 - (b) Write the classification of fungi with examples.
- 7 Answer the following : 7+7=14
- (a) Briefly describe the ecotourism and its significance
 - (b) Write a note on the significance of invasive species
- 8 Answer the following : 7+7=14
- (a) Write a note on the role of habitat loss to the biodiversity.
 - (b) Briefly describe the basic features in different classes of phylum Echinodermates.
- 9 Answer of the following : 7+7=14
- (a) Write a note on the general features of angiosperm.
 - (b) Write a note on the systematics of class aves.
- 10 Answer of the following : 7+7=14
- (a) Write a short note on the effects of climate change on terrestrial biodiversity.
 - (b) Write a note on the significance of classification.