



# 21ZOO1C1L

## M.Sc. I Semester Degree Examination, April/May - 2023

### ZOOLOGY

#### DSC1 : Systematics and Biology of Non-Chordates (CBCS)

Time : 3 Hours

Maximum Marks : 70

**Note :** Answer **any five** of the following questions with Question No. **1 Compulsory**, each question carries **equal** marks.

1. Write short notes on the followings :
  - (a) Biological species concept 5
  - (b) Molecular taxonomy 5
  - (c) Allopatric and Sympatric species 4
2. Write general characters and classification of Phylum-Mollusca and Class-Amphibia. 14
3. Write short notes on the followings :
  - (a) Methods of collection and preservation of non-chordates 5
  - (b) Basic concept of ICZN 5
  - (c) Similarity and Dissimilarity index 4
4. Write an explanatory notes on the followings :
  - (a) Modes of locomotion 5
  - (b) Excretion in polychaetes 5
  - (c) Respiratory pigments in non-chordates 4
5. Give brief note on the followings :
  - (a) Larval forms of Arthropoda and their significance 5
  - (b) Primitive nervous system in coelenterates 5
  - (c) Water vascular system in Echinodermata 4
6. Write a note on the followings :
  - (a) Protochordates 5
  - (b) Phylum : Platyhelminthes 5
  - (c) Binomial nomenclature 4



7. Write a short notes on the followings :
- (a) Skeletal organization in sponges 5
  - (b) Parasitic adaptations in helminthes 5
  - (c) Reproduction in *Fasciola* 4
8. Write brief note on the followings :
- (a) Class : Mammalia 5
  - (b) IUCN red list of threatened species 5
  - (c) Advanced nervous system in Annelida 4

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