



## ED-318

M.Sc. 1st Semester  
Examination, March-April 2021

### ZOOLOGY

Paper - I

Biosystematics, Taxonomy and Biodiversity

Time : Three Hours]

[Maximum Marks : 80

[Minimum Pass Marks : 16

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**Note** : Answer **all** questions in which Question Number 1 is compulsory. All questions carry equal marks.

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1. Write notes on the following :

- Molecular taxonomy
- Speciation
- Zoological types
- Hotspots of Biodiversity

#### Unit-I

2. Define Cytotaxonomy. Explain various techniques used in it with suitable examples.

**OR**

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*(Turn Over)*

( 2 )

Describe importance and applications of Biosystematics in Biology.

**Unit-II**

3. What are the various taxonomic characters used to classify an organism? Explain with suitable examples.

**OR**

Define Species. Write about different 'species concept' to describe it.

**Unit-III**

4. Define Taxonomic keys. Explain the following with example :
- (a) Indented key
  - (b) Circular key
  - (c) Pictorial key

**OR**

Write an essay on preservation of animals.

**Unit-IV**

5. Define Biodiversity. Explain various methods of conservation of biodiversity.

**OR**

Write notes on the following :

- (a) Types of biodiversity
- (b) Any two threats to biodiversity