

REV-01
BSZ/06/16

2023/01

**B.Sc. ZOOLOGY
FIRST SEMESTER
BIOSYSTEMATICS AND TAXONOMY
BSZ-102 (IDMn)**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

- Pelagic tunicates are collected by:
 - Dip net
 - Plankton net
 - Mist net
 - Butterfly net
- Who first time recognized the difference between genus and species?
 - Darwin
 - John Ray
 - Ernst Haeckel
 - None
- Who authored the book "De Plantis"?
 - Darwin
 - Aristotle
 - Hippocrates
 - None of these
- In flight interception trap the used preservatives are:
 - Amber
 - Kerosene
 - Ethanol
 - None of these
- The morphological approach of taxonomy covers:
 - Shape, size, colour, body structure etc.
 - Anatomy
 - Both a & b
 - None of these
- Ecological approach of taxonomy is based on:
 - Habitat selection
 - Food preference
 - Breeding seasonality
 - All of these
- Flashlights and Black lights are used to collect:
 - Nocturnal animal
 - Birds
 - Insects
 - Nocturnal invertebrates
- The connecting link sometime misguides the:
 - Morphological approach of taxonomy
 - Ecological approach of taxonomy
 - Embryological approach of taxonomy
 - None of these
- What is the best preservation method of fish to preserve colour and tissues?
 - 10% formaldehyde
 - 2% formaldehyde
 - Dry ice or liquid nitrogen
 - Ethanol

10. Aspirators are used to collect:

- a. Insect and arachnids
- c. Rodents

- b. Bird
- d. Soil microbe

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(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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| 1. Write short notes: (<i>any two</i>) | 2.5+2.5=5 |
| a) Chemotaxonomy | |
| b) Cytotaxonomy | |
| c) Molecular Taxonomy | |
| 2. What is the purpose of taxonomic preservation? Describe the preservation method of Fish and amphibia. | 2+4+4=10 |
| 3. Define taxonomy. Write a note on the history of animal taxonomy. | 2+8=10 |
| 4. What do you mean by taxonomic collection? Describe the methods of collection for aquatic and terrestrial insects. | 2+4+4=10 |
| 5. Write a note on the stages of taxonomy and importance of Biosystematics. | 5+5=10 |

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