

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

**SET
B**

[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

- Cytotaxonomy comprises:
 - Cell structures
 - Cell numbers
 - Both a & b
 - None of these
- Compospecies are:
 - A geographically aggressive species
 - A morphologically aggressive species
 - A genetically aggressive species
 - None of these
- The Royal Ontario Museum (ROM) preservation method is used for:
 - Birds
 - Reptiles
 - Mammals
 - Amphibians
- The rules and recommendation of ICZN is adopted since:
 - 1971
 - 1972
 - 1973
 - 1974
- In proper labeling of specimen which data is not needed in the label?
 - Geographical locality
 - Name of the collector
 - Collecting equipment
 - Stage (egg/larva/pupa/adult) of the specimen
- Who authored the book "De Plantis"?
 - Darwin
 - Aristotle
 - Hippocrates
 - None
- Who forwarded the Typological Species Concept?
 - Aristotle
 - Plato
 - Both a & b
 - None of these
- For preservation of Amphibia which solvent is used?
 - 5% formalin
 - 70% ethyl alcohol
 - 40-50% isopropyl alcohol
 - All of these
- Code proper of ICZN includes:
 - 20 articles
 - 90 articles
 - 30 articles
 - None of these

10. Flootation method for insect collection is used to collect insect from:
- a. Leaf
 - b. Canopy
 - c. Water
 - d. Soil

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(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

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

1. Write short notes on: 2.5+2.5=5
 - a) Zoological nomenclature
 - b) Taxonomic key
2. What is preservation? Why we need to preserve specimen? Discuss about dry preservation and wet preservation methods. 2+2+3+3=10
3. What is taxonomic collection? Discuss different collection methods for aquatic invertebrates. 2+8=10
4. Define taxonomy. Write a note on the stages of taxonomy and importance of Biosystematics. 2+3+5=10
5. Write the differences between: 5+5=10
 - a) Chemotaxonomy Vs Molecular taxonomy.
 - b) Ecological approaches Vs Morphological approaches in taxonomy.

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