

Total No. of Questions – 10]  
(2023)

[Total Pages : 2

**4705**

**M.Sc. (Zoology) CBS 1st Semester Examination**

**BIOSYSTEMATICS AND TAXONOMY**

**Paper–MZOO–101**

Time : Three Hours]

[Maximum Marks : 40

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/ continuation sheet will be issued.*

**Note :** Attempt any *five* questions. All questions carry equal marks. Draw suitable diagrams where required.

1. What is taxonomy? Give its importance and discuss in detail on the different stages in taxonomy. (8)
2. Discuss in detail on the Aims and tasks of a taxonomist. (8)
3. Write short notes on :
  - (i) Ecotaxonomy.
  - (ii) Behavioural taxonomy. (4+4=8)

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4. What is Zoological classification? Describe different components of classification. (8)
5. Write short notes on :  
(i) Biological species concept.  
(ii) Polytypic species. (4+4=8)
6. What is Pinning? Discuss in detail on entomological pins and pinning of various insect orders with suitable diagrams. (8)
7. Write short notes on :  
(i) Holotype.  
(ii) Law of Priority.  
(iii) Preparation of taxonomic publications. (2+3+3=8)
8. What is typification? Discuss in detail on the type and its different kinds. (8)
9. Write short notes on :  
(i) Indented key. ✓  
(ii) Different methods of Identification. ✓ (8)
10. What is ICZN? Describe its origin and Importance. ✓ (8)
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