

[ SZ - S 133B ]

M.Sc. DEGREE EXAMINATION

Zoology

First Semester

*Solved*  
BIO SYSTEMATICS BIODIVERSITY  
AND TAXONOMY

(Effective from the admitted batch of 2022-2023)

Time : 3 Hours

Max. Marks: 70

*Answer questions from each Unit.  
All question carry equal marks.*

UNIT - I

1. (a) Explain the history and problems of taxonomy.  
(b) Define taxonomy. Describe its basic concepts. *5*

(OR)

2. (a) Describe the applications of biosystematics in biology.

- (b) Give an account on material basis of bio systematic. *3*

*variations  
phenetic variation  
ecological*

UNIT - II

3. (a) Describe the theories of essentialism and nominalism. *5*

*Individual variation*

- (b) Write an essay on Eco - taxonomy and behavioral taxonomy.

(OR)

4. (a) Write an account on evolutionary classification.

- (b) What is cytotaxonomy? Discuss its significance. *4*


( P.T.O. )

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
UNIT - III

5. (a) Describe the typological and nominalistic species concepts.  
(b) Write notes on subspecies and other infra specific categories.

(OR)

6. ~~(a)~~ Discuss the different dimensions of speciation.   
(b) Explain allopathic speciation and differentiate it from sympatric speciation.

UNIT - IV

7. ~~(a)~~ Give an account on in situ and ex- situ conservation of biodiversity. ✓   
(b) Explain the threats of biodiversity.

(OR)

8. (a) What is reproductive isolation? Explain prezygotic and post zygotic mechanisms.  
(b) Write notes on hierarchy of categories.

UNIT - V

9. (a) Describe the process of curation and identification of animals in taxonomic collection.  
(b) Explain the different types of taxonomic keys.

(OR)

10. (a) Give an account on the operative principles of TCZN. ✓  
(b) Write notes on zoological nomenclature.

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