

**Second Year Examination of the
Three Year Degree Course, 2001**

ZOOLOGY

First Paper

(Invertebrates and Evolution)

Time: 3 Hours
[Maximum Marks :50]

Attempt any **five** questions,
selecting at least **one** question from each unit,
All questions carry equal marks.

UNIT – I

1. Write general characters of phylum mollusca and classify it upto classes, giving at least two examples of each class.
2. Describe the respiratory organs and mechanism of respiration in pila.

UNIT-II

3. What do you understand by "Ciliary feeder"? Describe it in connection with alimentary canal of Balanoglossus.
4. Give general characters of phylum echinodermata and its classes with example.

UNIT-III

5. Define the term variation. Give detailed account of chromosomal variation and their sources.
6. Give an account of various kinds of isolating mechanism found in nature. Give their importance in speciation.

UNIT IV

7. What is fossil? Write the formation of fossil with diagram.
8. Define adaptation. Write detailed account of structural adaptation.

UNIT-V

9. What is Organic evolution? Describe the embryological evidences of evolution.
10. Write notes on **any two** of the following:
 - (a) Natural selection
 - (b) Oriental region
 - (c) Neo-Lamarckism.