

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

ZOOLOGY

Second Paper

(Cell and Molecular Biology)

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. What are Enzymes? Give classification and discuss their properties.
2. Describe ultrastructure and functions of Flagella.

UNIT-II

3. Give a brief idea of cell-cycle.
4. What is Plasma-membrane? Discuss its ultrastructure on the basis of Fluid-Mosaic-model.

UNIT-III

5. Write detailed account of structure and function of Endoplasmic-reticulum.
6. Write short notes on any two:
 - (a) Functions of Golgi bodies
 - (b) Types of Lysosomes
 - (c) Functions fo Endoplasmic-reticulum.

UNIT-IV

7. Give structure, chemical nature and functions of Mitochondria.
8. Describe structure and function of Ribosomes.

UNIT-V

9. Differentiate between DNA and RNA.
10. Discuss steps involved in synthesis of Proteins.