

# ZOOLOGY

## B.Sc. I

### Paper I and Paper II

- Students should understand the habits, morphology, physiology, reproduction and development of different lower non-chordates and higher non-chordates.
- Students should have knowledge of classification of different phyla.

### Paper III

- Students should understand the basic concepts of cell biology.
- Students should have knowledge of genetical concepts and its implications in heredity.

## B.Sc. II

### Paper I

- Students should know classifications, habits, morphology, anatomy, physiology and development of different protochordates.
- Students should classify the different classes of vertebrates. Special emphasis should be given on various particular mechanisms pertaining to these classes.

### Paper II

- Students should understand various concepts of animal distribution with their characteristics fauna and fossils.
- Students should have elementary knowledge of concepts of species.
- Students should understand various evidences and theories of evolution including evolution of man.
- Students should understand various developmental biological processes.

### Paper III

- Students should understand the basic concepts of physiology and biochemistry with special reference to mammals.

## **B.Sc. III**

### **Paper I**

- Students should have knowledge of the structure, life cycle, pathogenicity, including diseases, causes, symptoms and control of the parasites of domestic animals and humans.
- Students should understand the life cycle and control of the vector and pests.
- Students should have knowledge about animal breeding and culture like Aquaculture, Pisciculture, Poultry farming, Sericulture, Apiculture, Lac-culture and their applications at commercial level.
- Students should understand about endangered species, sanctuaries and National Parks of India.

### **Paper II**

- Students should understand the applications of biotechnological techniques like genetic engineering in agriculture and medical areas.
- Students should know the concepts of immunity, vaccines of different disease and immunological reactions.
- Students should have knowledge of principles and uses of various instruments used in laboratory and bio statistical methods for data interpretation.

### **Paper III**

- Students should understand the nature and basic concepts of ecology and ecological adaptations.
- Students should have knowledge of morphology, physiology and infection of microbes and diseases caused by them.
- Students should understand various aspects of animal behavior.
- Students should have elementary knowledge of concepts, sources, types and control of environmental pollution.