

Course V: Chordates (BSCZO201)

UNIT WISE CONTENTS (BSCZO201)

Block I (Primitive chordates)

Unit 1: Origin of chordates

Introduction and characters of chordates. Classification of chordates upto order level.

Unit 2: Hemichordata

General characters and classification upto order level. Study of *Balanoglossus* and its affinities.

Unit 3: Urochordata

General characters and classification upto order level. Study of *Herdmania* and its affinities.

Unit 4: Cephalochordata

General characters and classification upto order level. Study of *Branchiostoma (Amphioxus)* and its affinities.

Unit 5: Cyclostomata (Agnatha)

General characters and classification upto order level. Study of *Petromyzon* and its affinities.

Block II (Lower chordates)

Unit 6: Fishes

General characters and classification upto order level. Types of scales and fins of fishes, *Scoliodon* as type study, migration and parental care in fishes.

Unit 7: Amphibia

General characters and classification upto order level, *Rana tigrina* as type study, parental care, neoteny and paedogenesis.

Unit 8: Reptilia

General characters and classification upto order level, extinct reptiles. *Uromastix* as type study. Identification of poisonous and non-poisonous snakes and biting mechanism of snakes.

### Block III (Higher chordates)

#### Unit 9: Aves

General characters and classification upto order level. Study of *Columba* (Pigeon) and Characters of Archaeopteryx. Flight adaptations bird migration.

#### Unit 10: Mammalia

General characters and classification upto order level, affinities of Prototheria, Metatheria and Eutheria. Study of rabbit (*Oryctolagus*) and dentition in mammals. Economic importance of mammals.