

## SEMESTER – IV

### Paper-I : Life and Diversity of Chordates - II

External Marks : 40

Internal Assessment: 10

Time allowed : 3 Hours

*Note: Nine questions are to be set in all and the candidates are required to attempt five questions including the compulsory question*

1. Question 1 is compulsory consisting of 10 parts (1.5 marks each) covering the entire syllabus. Answer to each part should not exceed 20 words.
2. Out of remaining eight, four questions are to be set from each section A & B, possibly splitting them in parts. Candidates are required to attempt four questions, two from each section.

#### SECTION-A

1. **Amphibia:** Origin, Evolutionary tree. Type study of frog (*Rana tigrina*), Parental Care in Amphibia
2. **Reptilia:** Type study of Lizard (*Hemidactylus*), Origin, Evolutionary tree. Extinct reptiles; Poisonous and non-poisonous snakes; Poison apparatus in snakes.

#### SECTION-B

3. **Aves:** Type study of Pigeon (*Columba livia*); Flight adaptation, Principles of aerodynamics in Bird flight, migration in birds.
4. **Mammals:** Classification, type study of Rat; Adaptive radiations of mammals dentition.

**Note: Type study includes detailed study of various systems of the animal.**