



NTK/KW/15/5861

**Bachelor of Science (B.Sc.) Semester—IV Examination**  
**ZOOLOGY**

**(Life & Diversity of Animals Chordates)**

**Paper—I**

Time—Three Hours]

[Maximum Marks—50

**Note :-** (i) All questions are compulsory.

(ii) All questions carry equal marks.

(iii) Illustrate your answers with suitable diagrams.

1. Describe biting mechanism of snake. Add a note on snake venom. 10

**OR**

Write short notes on :

(A) Morphological flight adaptations in Birds. 5

(B) Metatheria. 5

2. Describe Neo-Darwinism theory of evolution. 10

**OR**

Write short notes on :

(A) Terrestrial Adaptation in animals. 5

(B) Caucasoid and Negroid races in man. 5

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Contd.

3. Describe in detail the development of chick up to primitive streak. 10

OR

Write short notes on :

- (A) Comparative account of aortic arches in Reptiles and Birds. 5
- (B) Development of allantois in chick embryo. 5
4. Give an account on types of placenta in mammals on the basis of histological structure. 10

OR

Write notes on :

- (A) Rhythmic behaviour in Birds and Mammals. 5
- (B) Source and types of stem cells. 5
5. Write **FOUR** or **FIVE** lines on the following (any **TEN**) :
- (i) Diapsida
  - (ii) Ratitae
  - (iii) Eutheria
  - (iv) Mongoloid



(v) Species

(vi) Deme

(vii) Amnion

(viii) Blastodisc

(ix) Latebra

(x) Biological clock

(xi) Implantation

(xii) Decidua.

10