

**Bachelor of Science (B.Sc.) Semester-IV (C.B.S.) Examination**  
**ZOOLOGY (Life & Diversity of Animals Chordates : Reptilia, Aves and Mammals)**  
**Paper—I**

Time : Three Hours]

[Maximum Marks : 50

**N.B. :—** (1) **ALL** questions are compulsory.

(2) All questions carry equal marks.

(3) Draw suitable diagrams wherever necessary.

1. Give an account of poison apparatus and biting mechanism in snake. 10

**OR**

Write notes on :

(A) Flight adaptations in birds. 5

(B) General characters of Metatheria. 5

2. Give an account of races in Man. 10

**OR**

Write notes on :

(A) Darwin's theory of Evolution. 5

(B) Species concept. 5

3. Give an account of structure of fertilized egg of hen. 10

**OR**

Write notes on :

(A) Development of Amnion and its functions. 5

(B) Aortic arches in Mammals. 5

4. Give an account of types of placenta on the basis of histology. 10

**OR**

Write notes on :

(A) Use of stem cell in human welfare. 5

(B) Rhythmic behaviour in Mammals. 5

5. Write four or five lines on the following (any **ten**) :

(i) Carinatae

(ii) Anapsid

(iii) Neurotoxin

(iv) Deme

(v) Cursorial adaptation

(vi) Neo-Darwinism

(vii) Somite

(viii) Yolk sac

(ix) Hensen's node

(x) Pheromones

(xi) Blastocyst

(xii) Functions of placenta. 10