

Bachelor of Science (B.Sc.) Semester—IV (C.B.S.) Examination
ZOOLOGY (Life and 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. Write an essay on flight adaptations in birds. 10

OR

Write notes on :

- (A) General characters of Prototheria 5
- (B) Snake venom and its importance. 5

2. Give an account of Darwin theory of Evolution. 10

OR

Write notes on :

- (A) Cursorial adaptations in animals. 5
- (B) Caucasoid and Australoid races. 5

3. Give the comparative account of aortic arches in Reptiles, Birds and Mammals. 10

OR

Write notes on :

- (A) Process of gastrulation in chick. 5
- (B) Development of Allantois and its functions. 5

4. Describe the role of pheromones in reproductive behaviour. 10

OR

Write notes on :

- (A) Types of placenta based on distribution of Villi. 5
- (B) Applications of stem cell. 5

5. Write **four** or **five** lines on the following (Any **TEN**) :

- (i) Kiwi
- (ii) Diapsid
- (iii) Altitudinal migration
- (iv) Variation
- (v) Adaptations in bat
- (vi) Neo Darwinism
- (vii) Functions of Yolk Sac
- (viii) Chalaza
- (ix) Sinus venosus
- (x) Syndesmochorial placenta
- (xi) Implantation
- (xii) Circadian rhythm.

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