

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



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

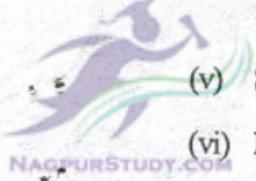
Write notes on :

(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