

FACULTY OF SCIENCE

B.Sc. (II Year) III Semester (CBCS) Examination

ZOOLOGY

Core Paper III

(Animal Diversity - Vertebrates and Developmental Biology)

Time : 3 Hours]

[Max. Marks : 80

Section A – (Marks : 5 × 4 = 20)

Write short note on any five of the following.

1. a) Characters of Cyclostomes
- b) Placoid scales
- c) Apoda
- d) Describe the chief poisonous snakes
- e) Air sacs in Birds
- f) What is dental formula? Explain with two examples.
- g) Autotomy
- h) Gastrulation in frog.

Section B – (Marks : 4 × 15 = 60)

Answer all the following questions.

2. a) What is retrogressive metamorphosis? Explain in detail its significance in Urochordata.
Or
- b) Describe the nervous system of Scoliodon.
3. a) Draw a labelled diagram of L.S. of heart of frog. Explain its structure and functions.
Or
- b) Describe the general characters of Reptelia.
4. a) Write an essay on the migration of Birds.
Or
- b) Write about the respiratory system of Rabbit.
5. a) What is gametogenesis? Explain different phases of spermatogenesis in mammals.
Or
- b) Describe the structure of different extra embryonic membranes of chick and mention their functions.

[No. of Pages: 2]

[P.T.O.]