

1603

4

(iii) Protostomes and Deuterostomes

(iv) Prototheria and Eutheria

(c) Match the following : (5)

(i) Sound producing organ (a) Sphenodon

(ii) Haemotoxic venom (b) Syrix

(iii) Tuatara (c) Coenozoic Era

(iv) Age of mammals (d) Urochordata

(v) Notochord in tail region (e) Viper

2. (a) Explain poison apparatus with the help of suitable diagrams. (7+5)

(b) Discuss briefly the biting mechanism in snakes.

3. Describe the mechanism of osmoregulation in Elasmobranchs and Teleost fishes. (12)

4. Write short notes on any **three** of the following :

(i) Aerial adaptations in Aves

(ii) Retrogressive metamorphosis

(iii) Salient features of Protochordata

(iv) Parental care in Amphibia (4+4+4)

(1500)

[This question paper contains 4 printed pages.]

9 Dec

Your Roll No.

Sr. No. of Question Paper : 1603

Unique Paper Code : 42231102

Name of the Paper : ANIMAL DIVERSITY

Name of the Course : B.Sc. (P) Life Science (LOCF)

Semester : I

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. There are **two** sections, **Section A** and **Section B** to be answered on separate answer sheets.
3. Answer **three** questions from each section, including Question No. 1 which is compulsory.
4. Draw well labelled diagrams wherever necessary.

**SECTION A
(NON CHORDATA)**

1. (a) Define the following terms : (4)
 - (i) Metamorphosis
 - (ii) Cephalization

P.T.O.

(iii) Metamerism

(iv) Vector

(b) Distinguish between the following : (5)

(i) Definitive and intermediate host

(ii) Ostium and osculum

(iii) Gastrozoid and dactylozoid

(iv) Opposition and superposition image

(v) Enterocoel and haemocoel

(c) Give location and function of the following : (5)

(i) Flame cells

(ii) Osphradia

(iii) Tube feet

(iv) Scolex

(v) Clitellum

2. (a) Give an account of the life history of *Taenia solium*. (8+4)

(b) Add a note on parasitic adaptations in Helminthes.

3. (a) Discuss in detail general features of kingdom Protista. (6+6)

(b) Explain various types of locomotion in Protozoa.

4. Write short notes on any **three** of the following :

(i) Polymorphism

(ii) Canal system in sponges

(iii) Torsion in Gastropods

(iv) Metamorphosis in Insects (4+4+4)

SECTION-B (CHORDATA)

1. (a) Define the following terms : (4)

(i) Patagia

(ii) Holobranch

(iii) Pneumatic bones

(iv) Diastema

(b) Distinguish between the following pair of terms : (4)

(i) Amniotes and Anamniotes

(ii) Stenohaline and Euryhaline