

Roll No.

21401

B. Sc. (Hons.) Zoology 2nd Semester
Examination – May, 2019

BIODIVERSITY-III CHORDATA

Paper : 201

Time : Three hours] [Maximum Marks : 40

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is *compulsory*. Marks are indicated against each question.

1. Answer the following in about 20 words each :

1 × 10 = 10

- (a) Define Taxa.
- (b) Define and write one examples of Retrogressive metamorphosis.

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- (c) Name germ layer which develops to notochord.
- (d) Meaning of 'Uro' in Urochordata.
- (e) Explain Retrogressive metamorphosis.
- (f) Describe Sanguivorous animal.
- (g) Define Acrodont teeth.
- (h) Write about Placoid scales.
- (i) Discuss Significance of Air sacs.
- (j) Define Air bladder and its significance.

UNIT – I

Write notes on the following : 7½

- (a) Principles of classification of chordates.
- (b) Theories of origin of chordates.

Write notes on the following : 7½

- (a) Salient features of chordates.
- (b) Digestive system of Petromyzon.

(2)

UNIT - II

4. Write notes on the following : 7½

(a) Structure and working of heart of *Scoliodon*.

(b) Migration in fishes.

5. Write notes on the following : 7½

(a) Parental care in Amphibians.

(b) Classification of Amphibians upto orders.

UNIT - III

6. Write notes on the following : 7½

(a) Write salient characters of group Reptilian.

(b) Differentiate between poisonous and non-poisonous snakes of India.

7. Describe various types of modifications in structures of birds for flight adaptations. 7½

(3)

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UNIT - IV

8. Write notes on any *two* of the following : 7½

(a) Digestive system of Rat : Structure and function.

(b) Origin of mammals.

9. Describe general features and classification of Mammals up to orders. 7½

(4)