

Roll No.

21402

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

BIODIVERSITY -IV CHORDATA

Paper : 202

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) How many bones are present in human skull ?
- (b) Define air sacs and their significance.

- (c) Name the bones present in mammalian internal ear.
- (d) What type of circulatory system present in amphibians ?
- (e) What is trigeminal nerve ?
- (f) Define metanephric kidney.
- (g) What is proprioceptor ?
- (h) Name the respiratory organs present in frog.
- (i) Define ossification.
- (j) What are the sebaceous glands ?

UNIT – I

2. Describe about the structure of integuments present in different groups of vertebrates. 7½

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(2)

3. Write notes on the following : 7½

- (a) Process of growth of bones.
 (b) Various types of bones present in mammals.

UNIT – II

4. Describe various associated glands of digestive system in chordates. 7½

5. Write notes on the following : 7½

- (a) Differentiate between types of skin of Amphibian and mammals.
 (b) Respiratory organs present in birds.

UNIT – III

6. Write about the evolution of aortic arches in vertebrates. 7½

7. Differentiate between axial and appendicular skeleton with reference to mammals. 7½

UNIT – IV

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

- (a) Mammalian eyes : Structure and function.
 (b) Classification of receptors.

9. Describe the evolution of urinogenital tract in vertebrates. 7½