

This question paper contains 3 printed pages]

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S. No. of Question Paper : 986

Unique Paper Code : 223201

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Name of the Paper : Biodiversity—II (Chordata—I) (ZOHT-202)

Name of the Course : B.Sc. (Hons.) Zoology

Semester : II

Duration : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Answer *Five* questions only, including.

Question No. 1 which is compulsory.

1. (a) Define the following terms :

4

(i) Ectotherms

(ii) Neoteny

(iii) Diastema

(iv) Solenoglyphous.

(b) Give the scientific name and classify upto order ;

6

(i) Tree frog

(ii) Flying lizard

(iii) Hedgehog

(iv) Limbless amphibian.

P.T.O.

- (c) Distinguish between the following : 10
- (i) Latitudinal and Longitudinal migration.
  - (ii) Amniotes and Anamniotes.
  - (iii) Placoid and Ctenoid scales.
  - (iv) Claws and nails.
  - (v) Heterocercal and homocercal caudal fin.
- (d) Give the exact location and functions of the following : 4
- (i) Baleen
  - (ii) Digastric muscles
  - (iii) Syrinx
  - (iv) Endostyle.
- (e) State whether the following statements are true *or* false : 3
- (i) Only right aortic arch is present in birds.
  - (ii) Gills are covered by an operculum in Chondrichthyes.
  - (iii) Rumen is absent in camel.
2. (a) Give a brief account of parental care in Amphibia. 6
- (b) Discuss the affinities of Hemichordates. 6
3. Discuss the mechanism of flight in birds. 12

4. (a) Describe the structure and function of various epidermal glands found in vertebrates. 6
- (b) Describe the structure of a typical tooth and various types of teeth found in Mammals. 6
5. (a) How can you distinguish a poisonous snake from a non-poisonous one? 6
- (b) Describe the general character of Agnatha. 6
6. (a) Define osmoregulation and describe how marine fishes regulate water and salt content of the body. 6
- (b) Differentiate between Metatherian and Eutherian mammals. 6
7. Write short notes on any *three* of the following : 4,4,4
- (a) Ruminant Stomach
- (b) Retrogressive metamorphosis
- (c) Types of horns
- (d) Catadromous migration.