

2019

ZOOLOGY

(*Diversity and Distribution of Chordates*)

[Honours]

Paper—V

Full Marks : 60

Time : 3 hours

Answer **all** questions

The figures in the right-hand margin indicate marks

Draw labelled diagrams wherever necessary

GROUP — A

1. Answer any *nine* questions : 2 × 9

(a) What is stomochord and where is it located in *Balanoglossus* ?

(b) Where do we find the wheel organ, what is its function ?

(c) What are the two types of specules in *Herdmania* ?

(d) Define Agnatha and give examples.

(e) What is catadromous migration ?

(f) Name any two amphibians which belong to the order-Urodela.

(g) Name living reptiles one each of (i) diapsid skull and (ii) anapsid skull.

(h) Which organs of birds used as steering and balancing during flight ?

(i) What are the reptilian characters seen in *Archaeopteryx* ?

(j) Give two examples of monotremes and state where they are found.

(k) What is diphyodont dentition ?

(l) Name two mammals of cursorial form.

(3)

GROUP – B

Answer **all** questions 14 × 3

2. Give an account of structural peculiarities and affinities of cyclostomes. 14

Or

Write notes on the following : 7 × 2

(i) Tornaria larva

(ii) Matamorphosis of Ascidian tadpole.

3. Discuss the origin and ancestry of Amphibia. 14

Or

Write notes on the following : 7 × 2

(i) Sphenodon

(ii) Morphological adaptation for flight.

4. Describe the structural organization and affinities of prototheria. 14

(Turn Over)

3rd-CCH-Zoo-V

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(4)

Or

Write notes on the following : 7 × 2

(i) Dentition in mammals

(ii) Continental Drift theory.

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