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3 (Sem–3/CBCS) ZOO HC 1

2023

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ZOOLOGY

(Honours Core)

Paper : ZOO–HC–3016

(Diversity of Chordata)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following questions : 1×7=7

   (i) Which is not a chordate character ?

   (a) Dorsal hollow tubular nerve cord

   (b) Longitudinal supporting rod-like notochord

   (c) A series of pharyngeal gill slits

   (d) Diploblastic

Contd.

(ii) Balanoglossus is commonly known as
(a) Snake worm
(b) Acorn worm
(c) Corn worm
(d) Hemichordata

(iii) The Dipleurula concept was first proposed by
(a) Darwin
(b) Bather
(c) Garstang
(d) None of the above

(iv) The larva of Lamprey is
(a) Tornaria
(b) Trochophore
(c) Ammocoete
(d) Ascidia tadpole larva

(v) The Ostracoderms are grouped into
(a) Pisces
(b) Agnatha
(c) Gnathostomata
(d) Tetrapoda

(vi) Which of the following is the connecting link between osteichthyes and Amphibian ?
(a) Peripatus
(b) Neopilina
(c) Protopterus
(d) Ornithorhynchus

(vii) Snakes are sensitive to
(a) noises made by birds
(b) earth borne vibrations
(c) thunder
(d) air borne vibrations

2. Answer the following : 2×4=8
(i) Write short notes on parental care in Amphibia.
(ii) Describe the mechanism of osmoregulation in marine fish.
(iii) What is active flight or true flight ?
(iv) State distinctive characters of class Reptilia.

3. Answer ***any three*** of the following questions : 5×3=15
(i) Distinguish between Lamprey and Hagfish.
(ii) Write a brief note on Archaeopteryx with suitable diagram.
(iii) Write about the anatomical pecularities of Sphenodon.

(iv) Distinguish between Megachiroptera and Microchiroptera.

(v) Write briefly on Wegener's continental drift theory.

4. Answer the following questions : 10×3=30

(a) Describe the retrogressive metamorphosis in Urochordata with suitable diagrams.

Or

(b) What do you mean by parental care ? Discuss about the various mechanism of parental care in Fishes. 2+8=10

5. (a) Write about the general characteristics of class Amphibia. Give an outline classification of Amphibia. 5+5=10

Or

(b) Birds are 'glorified reptiles'. Justify the statement.

6. (a) Name *two* venomous snake of India. Describe the bitting mechanism of snake with suitable diagram. 2+8=10

Or

(b) What do you mean by Zoogeography ? Give an account of different zoogeographical region with its faunal diversity and distribution. 2+8=10
