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3 (Sem-3/CBCS) ZOO HC 1

2023

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 : $1 \times 7 = 7$

- (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 : $2 \times 4 = 8$

- (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 : $5 \times 3 = 15$

- (i) Distinguish between Lamprey and Hagfish.
- (ii) Write a brief note on Archaeopteryx with suitable diagram.
- (iii) Write about the anatomical peculiarities of Sphenodon.

(iv) Distinguish between Megachiroptera and Microchiroptera.

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

4. Answer the following questions : $10 \times 3 = 30$

(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 biting 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. $2+8=10$