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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 : 2×4=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 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. $2+8=10$