

- (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 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

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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 : 1×7=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

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- (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.

3 (Sem-3)/(CBCS) ZOO HC 1/G 3 Contd.