

Total number of printed pages-4

3 (Sem-3/CBCS) ZOO HC 1

2023

ZOOLOGY

(Honours Core)

Paper : ZOO-HC-3016

(Diversity of Chordata)

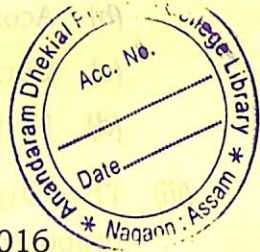
Full Marks : 60

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
- Snake worm
 - Acorn worm
 - Corn worm
 - Hemichordata
- (iii) The Dipleurula concept was first proposed by
- Darwin
 - Bather
 - Garstang
 - None of the above
- (iv) The larva of Lamprey is
- Tornaria
 - Trochophore
 - Ammocoete
 - Ascidia tadpole larva
- (v) The Ostracoderms are grouped into
- Pisces
 - Agnatha
 - Gnathostomata
 - Tetrapoda

- (vi) Which of the following is the connecting link between osteichthyes and Amphibian?
- Peripatus
 - Neopilina
 - Protopterus
 - Ornithorhynchus
- (vii) Snakes are sensitive to
- noises made by birds
 - earth borne vibrations
 - thunder
 - air borne vibrations



Answer the following : 2×4=8

- Write short notes on parental care in Amphibia.
- Describe the mechanism of osmoregulation in marine fish.
- What is active flight or true flight?
- State distinctive characters of class Reptilia.

3. Answer **any three** of the following questions : 5×3=15

- Distinguish between Lamprey and Hagfish.
- Write a brief note on Archaeopteryx with suitable diagram.
- 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. $2+8=10$

