

Total number of printed pages-4

3 (Sem-3/CBCS) ZOO HC 1

2021

(Held in 2022)

ZOOLOGY

(Honours)

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 : $1 \times 7 = 7$

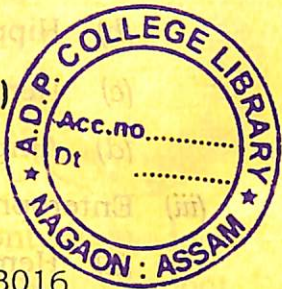
(i) Notochord is confined to proboscis
in

(a) Urochordata

(b) Hemichordata

(c) Cephalochordata

(d) Chordata



Contd.

(ii) Which of the following is a chordate but not a vertebrate ?

(a) Catla

(b) Hippocampus

(c) Hemidactylus

(d) Amphioxus

(iii) Enteropneusta belong to —

(a) Hemichordata

(b) Cephalochordata

(c) Urochordata

(d) Echinodermata

(iv) Which of the following is a lungfish ?

(a) Diplopterax

(b) Hippocampus

(c) Lepidosiren

(d) None of the above

(v) Tailless amphibians are —

(a) Anura

(b) Gymnophiona

(c) Caudata

(d) None of the above

(vi) The number of condyle(s) in the skull of reptiles is/are —

(a) one

(b) two

(c) three

(d) four

(vii) Teeth in mammals are —

(a) Thecodont, homodont, diphyodont

(b) Thecodont, heterodont, diphyodont

(c) Acrodont, homodont, monophyodont

(d) Acrodont, homodont, polyphyodont

2. Answer **any four** of the following : $2 \times 4 = 8$

(i) Distinguish between Metatheria and Eutheria.

(ii) Write on parental care in amphibia.

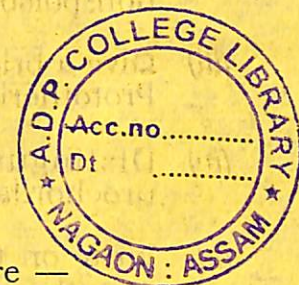
(iii) Write the role of kidneys in osmoregulation of fishes.

(iv) Write a short note on perching mechanism in birds.

(v) Write about the muscles associated with Biting mechanism of snakes.

3. Briefly describe the following : **(any three)**
 $5 \times 3 = 15$

(i) Give a brief account of the general characteristics of birds.



- (ii) Differentiate between poisonous and non-poisonous snakes.
- (iii) Give a brief account on the affinities of Prototheria.
- (iv) Distinguish among hemichordata, urochordata and cephalochordata.
- (v) Write on the general characteristics of Agnatha.

4. Answer **any three** of the following :

10×3=30

(i) Write about the general characteristics of fishes. Give an outline classification of fishes.

(ii) Describe the retrogressive metamorphosis in urochordata with suitable diagrams.

(iii) Describe the principles and aerodynamics of birds, flight. Write about the migration in birds.

(iv) Write about the theories related to the distribution of animals in different geographical realms. Highlight on how different vertebrates are distributed in different geographical realms.

(v) Give an account of distinguishing characters and outline classification of mammals.