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

- (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: 2×4=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) 5×3=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) Distingusih 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 acrodynamics of birds, flight. Write about the migration in birds.
 - (iv) Write about the theories related to the distribution of animals in different geographical realms. Highligth on how different vertebrates are distributed in different geographical realms.
 - (v) Give an account of distinguishing characters and outline classification of mammals.

4