



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

B.SC. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject: ZOOLOGY

Paper: C 8-T

(Comparative Anatomy of Vertebrates)

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Answer any **four** from the following questions : 5×4=20
- (a) Describe the modification of aortic arches in urodile amphibians. 5
- (b) Distinguish between pronephros and metanephros kidney. 5
- (c) Draw and describe the ruminant stomach. 2+3
- (d) Mention the location and name of accessory respiratory organs found in : 1×5
- (i) *Amphipnous* sp.
- (ii) *Anabus* sp.

(iii) *Clarias* sp.

(iv) *Lepidosiren* sp.

(v) *Periophthalmos* sp.

(e) Write a short note on : 2½+2½

(i) Foramen of Panizzae

(ii) Ductus Botalli

(f) Describe the structure and function of uropygial gland. 5

2. Answer any *two* from the following questions : 10×2=20

(a) Describe the comparative heart structure in Amphibia and Reptilia. 5+5

(b) Compare the female genital system of a bird with that of a mammal. 10

(c) Draw and describe of a typical flight feather. 10

(d) (i) Classify mammalian teeth according to the shape and size.

(ii) Describe the organ of Jacobson in tetrapods. 5+5
