

SM-4

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B.Sc. (Part-III) (Semester-V) (CBCS) Examination, October - 2023

ZOOLOGY (Paper-IX)

Comparative Anatomy of Vertebrates

Sub. Code : 79693

Day and Date : Monday 23 - 10 - 2023

Time : 10.30 a.m. to 12.30 p.m.

Total Marks : 40

- Instructions :
- 1) All questions are compulsory.
 - 2) Figures to the right indicate full marks.
 - 3) Draw neat labeled diagrams whenever necessary.

Q1) Select the correct alternative and rewrite the sentence.

[8]

- a) The heart of _____ is termed as completely four chambered heart
- i) Crocodile
 - ii) Lizard
 - iii) Cobra
 - iv) Sea Horse
- b) Liver of Rat is _____
- i) Single lobed
 - ii) Four lobed
 - iii) Bilobed
 - iv) Tri lobed
- c) The _____ gland present in birds
- i) Sebaceous
 - ii) Mammary
 - iii) Sweat
 - iv) Urophygial
- d) The venous heart is _____ chambered
- i) Two
 - ii) Three
 - iii) Incomplete four
 - iv) Four
- e) The trachea is absent in _____
- i) Calotes
 - ii) Pigeon
 - iii) Frog
 - iv) Rat
- f) The Presence of spiral valve in the intestine is the characteristic of _____
- i) Labeo
 - ii) Shark
 - iii) Sea horse
 - iv) Flat fish

P.T.O.

- g) First cervical vertebra is called as _____
- i) Axis
 - ii) Atlas
 - iii) Typical
 - iv) Supracervical
- h) The opening of lateral ventricle in 3rd ventricle is _____
- i) Iter
 - ii) Foramen of monro
 - iii) Anterior foramen
 - iv) Posterior foramen

Q2) Attempt any two of the following. [16]

- a) Give a comparative account of the brain of Aves and Mammals.
- b) Compare the structure of the lung of Amphibia with the structure of the lung of Reptile.
- c) Describe the Evolution of heart in Vertebrates.

Q3) Write short notes on (any four): [16]

- a) Hard epidermal derivatives
- b) Pelvic girdle of Amphibia
- c) Crop of Aves
- d) Gills of Fishes
- e) Metanephros
- f) Heart of Reptile

