

UG/2nd Sem/H/20(CBCS)

2020

ZOOLOGY (Honours)

Paper : ZOOH - DC 4-T

[Comparative Anatomy of Vertebrates] (CBCS)

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

1. Answer any *eight* questions : $\frac{1}{2} \times 8 = 4$
- (a) The layer of skin lying between the epidermis and dermis is called _____ (Fill in the blank).
 - (b) 4-chambered heart is found in Amphibia. (True or False)
 - (c) The largest part of brain is known as _____ (Fill in the blank).
 - (d) Name the largest part of alimentary canal.
 - (e) What is the name of second cervical vertebra?
 - (f) Carnassials teeth found in _____ (Fill in the blank)
 - (g) How many pairs of cranial nerves found in Reptiles ?
 - (h) What is the name of the layer that wraps the brain ?
 - (i) The diencephalon consists of : Thalamus and hypothalamus. (True or False)
 - (j) What is the muscularized organ that contributes to the pumping mechanism to facilitate aspiration in mammals ?

(k) A common chamber receiving products from kidneys, intestine, and often gonads is called _____ (Fill in the blank).

(l) What is nucleus pulposus ?

2. Answer any *two* questions : 2½×2=5

(a) Briefly describe about the poison glands of amphibia.

(b) Define tidal volume and vital capacity.

(c) Based on the presence of centra, what are the different types of vertebrae found in vertebrates?

(d) Give the dental formula of *Cavia* & Man.

3. Answer any *four* questions : 4×4=16

(a) Briefly describe different types of jaw suspensions found in vertebrates.

(b) Write a note on four chambered heart.

(c) Write a short note on sebaceous gland. How does it differ from sweat gland ? 2+2=4

(d) Classify reptilian skulls on the basis of temporal fossa.

(e) Briefly describe a nephron with a labelled diagram.

(f) Write a short note on ruminant stomach.

(g) Differentiate between horn and antler.
