

U.G. 2nd Semester Examinations 2022

ZOOLOGY (Honours)

Paper Code : ZOOL-H DC 4-T

(Comparative Anatomy of Vertebrates)

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 epidermis of skin is derived from the _____. (Fill in the blank)
- (b) Which part of the cranium support the brain?
- (c) What is the name of the region in the transition between the oesophagus and the stomach?
- (d) Meckel's cartilages give rise to _____ in mammalian skull. (Fill in the blank)
- (e) _____ is a connecting vessel between the bases of the left and right aortic arches in crocodilians. (Fill in the blank)
- (f) Write the name of cranial nerve VI.
- (g) Where do you find pyloric glands in stomach?
- (h) Oviduct in vertebrates is a modified _____ duct. (Fill in the blank)
- (i) How many cranial nerves are found in mammals?
- (j) Spiracle of shark is modified _____ slit. (Fill in the blank)
- (k) The outer layer of meninges is known as _____. (Fill in the blank)
- (l) Vomeronasal organ is also known as _____. (Fill in the blank)

2. Answer any *two* questions :

$2\frac{1}{2} \times 2 = 5$

- (a) What do you mean by amphistylic jaw suspension?
- (b) What are the different anatomical divisions of the ruminant stomach?
- (c) Write a short note on carnassial teeth.
- (d) What do you mean by foramen of Panizza?

P.T.O.

3. Answer any *four* questions :

4×4=16

- (a) Write a short note on integumentary glands of mammals.
 - (b) What do you mean by dental formula? Write dental formula of guineapig. What do you mean by thecodont dentition? 1+1+2=4
 - (c) Discuss about double respiratory system in birds.
 - (d) Briefly describe comparative anatomy of aortic arches in Aves and Mammalia.
 - (e) Explain the tripartite concept of kidney.
 - (f) Write down the structure of vertebra with proper diagram.
 - (g) Write a short note on splanchnocranium.
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