

B.Sc. (Honours) Examination, 2019

Semester–IV(CBCS)

Zoology

Course – CC-8

(Comparative Anatomy of Vertebrates)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Answer *any five* questions.

1. What do you mean by epidermal derivatives? Distinguish between horn and antler. Describe different types of true horn found in mammals with suitable diagram. 2+2+4=8
 2. What is jaw suspension? Briefly describe different types of jaw suspension. Tabulate the dermal bones found in the skull of amniotes. 1+4+3=8
 3. Describe with suitable diagram the evolution of male urinogenital ducts in vertebrates. Draw and describe different types of mammalian uteri. 4+4=8
 4. Give a comparative account of heart of toad and crocodile. State the role of Foramen of Panizza in the blood circulation in a diving crocodile. 6+2=8
 5. Compare the anatomical peculiarities of stomach in different groups of vertebrates with suitable diagram. Comment on the oral glands of reptiles. 6+2=8
 6. Compare the anatomy of the amphibian and reptilian brain. Write down the origin, distribution and functions of VIII and XII cranial nerves in human. 5+3=8
 7. Write brief notes on *any two* of the following: 4×2=8
 - (a) Digital cornification in vertebrates.
 - (b) Peculiarities of caudal fins in fishes.
 - (c) Accessory respiratory organ in fishes.
 - (d) Sympathetic nervous system.
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