

2024
B.A./B.Sc.
Fourth Semester
CORE – 8
ZOOLOGY
Course Code: ZOC 4.11
(Comparative Anatomy of Vertebrates)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Describe the structure of integument in vertebrates with a labelled diagram. Explain the functions of integument. 8+6=14
2. Write a note on the types of vertebrae found in vertebrates with examples. Give a comparative account of vertebral column in amphibia and reptiles. 5+9=14

UNIT-II

3. Explain the different types of dentitions in vertebrates. Enumerate on the different kinds of associated glands of the digestive system in vertebrates. 7+7=14
4. Critically analyse the respiratory and accessory respiratory organs in different classes of vertebrates. 14

UNIT-III

5. Explain the evolution of aortic arches in vertebrates with suitable diagrams. 14
6. Discuss the succession of kidneys in vertebrates with appropriate diagrams. 14

UNIT-IV

7. Give a comparative account of brain in fishes and amphibia with diagrams. 7+7=14
8. (a) Explain the structure of spinal cord in mammals. 7
(b) Explain the cranial nerves in mammals. 7

UNIT-V

9. Give the classification of receptors in vertebrates with suitable examples. 14
10. Write notes on the following: 7×2=14
(a) Olfactory receptor in human
(b) Photo receptor in human
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