

2022
B.A./B.Sc.
Fourth Semester
CORE – 8
ZOOLOGY
Course Code: ZOC 4.11
(Comparative Anatomy of Vertebrates)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. (a) Explain the structure of integument of mammals with neat labelled diagram. 7
- (b) Describe the important functions of integument with examples. 7

2. What is appendicular skeleton? Give a comparative account of the bones in the forelimbs of frog, reptiles and aves. 2+12=14

UNIT-II

3. Write notes on the following: 7×2=14
- (a) Dentition
- (b) Alimentary glands and associated glands

4. Give a comparative anatomy of lungs and air sacs of vertebrates. 14

UNIT-III

5. What are aortic arches? Explain the evolution of aortic arches in elasmobranch and amphibian. 14

6. Explain the succession of kidneys in vertebrates. 14

UNIT-IV

7. Give a comparative account of brain in reptiles, aves and mammals. 14
8. (a) Describe the parasympathetic nervous system with diagram. 7
(b) Explain the cranial nerves in mammals. 7

UNIT-V

9. What are receptors? Explain the classification of receptors with examples. 14
10. Write notes on the following: 7×2=14
(a) Audio receptor in man
(b) Vision in man
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