2023

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. Explain in detail the derivatives of integument with examples. 14
- 2. Give the comparative accounts of axial skeleton of Aves and mammals.

7+7=14

UNIT-II

3. Write notes on the following:

 $7 \times 2 = 14$

- (a) Accessory respiratory organs
- (b) Difference between true gills and larval gills
- 4. Write a comparative account on the digestive systems of the vertebrates.

14

UNIT-III

- 5. Explain in detail the evolution of hearts in vertebrates with diagrams. 14
- 6. Discuss the evolution of urinogenital ducts in vertebrates.

UNIT-IV

7. Give a comparative account of brain in vertebrates with diagrams. 14

8. Write notes on the following:

 $7 \times 2 = 14$

- (a) Autonomic nervous system in vertebrates
- (b) Explain the spinal cord in mammals

UNIT-V

 $9. \quad \mbox{Give an account on the olfactory and gustatory organ in vertebrates}.$

7+7=14

10. Describe the tactile and audio receptor in man.

7+7=14