

2022
B.A./B.Sc.
Third Semester
CORE – 5
ZOOLOGY
Course Code: ZOC 3.11
(Diversity of Chordates)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. Give ten general characters of chordata. Classify phylum chordata upto orders giving examples. 5+9=14
2. Explain the larval forms of Hemi-chordata and urochordata. 7+7=14

UNIT-II

3. Explain the different theories of chordata ancestry. Add a note on the external morphology of petromyzon. 10+4=14
4. Discuss the general characters of cyclostomata. Classify cyclostomata with examples. Write a note on advanced features of vertebrates. 6+4+4=14

UNIT-III

5. Give the general characters of chondrichthyes and osteichthyes with examples. Add a note on the osmoregulation in fishes. 10+4=14
6. Write notes on the following: 7×2=14
 - (a) Origin of tetrapoda
 - (b) Parental care in amphibians

UNIT-IV

7. Explain the poison apparatus and biting mechanism in snakes with labelled diagram. 9+5=14
8. Explain the flight adaptations and migration in birds. 7+7=14

UNIT-V

9. Describe the distributions of vertebrates in different zoogeographical realms. Add a note on the affinities of prototheria. 9+5=14
 10. Explain the adaptive radiation in mammals with reference to locomotory appendages. Give eight distinctive characters of mammals. 10+4=14
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