

AS/2051

May, 2021  
B.Sc. Semester II  
ZOOLOGY  
Paper I: Chordates

7/10/MH

Time Allowed: Three Hours

Maximum Marks: 40

**Note:** - Attempt five questions in all. Section C is compulsory. Select two questions from Section A and two questions from Section B. Draw diagrams wherever necessary.

**SECTION-A**

1. Discuss general characteristics of Chondrichthyes and Osteichthyes 6
2. Discuss the following
  - A. Parental care in fishes,
  - B. Osmoregulation in fishes 3,3
3. Describe general character, Neoteny and Paedogenesis in amphibians. 6
4. Write notes on following:
  - A. larval forms in protochordates
  - B. Retrogressive metamorphosis in Urochordata 3,3

**SECTION-B**

5. A. Discuss poisonous and non- poisonous snakes.  
B. Write an account about Poison apparatus of snake. 3,3
6. A. Describe Flight adaptations in birds. 3  
C. Explain Bird migration. 3
7. Explain Adaptive radiation and Dentition in mammals. 6
8. Describe general characteristics, Origin and Ancestry of birds. 6

**SECTION-C**

1. Affinities of Cephalochordata
2. Ectotherms
3. Affinities of Prototheria
4. extinct reptiles
5. Aerodynamics of flight
6. Flightless Birds
7. Perching mechanism
8. Bird migration 8X2=16