

**P-215**

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# **MSCZO-601**

## **Vertebrates**

M. Sc. Zoology (MSCZO)

3rd Semester Examination, 2023 (June)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Classify phylum Chordata up to order level with example.

2. Write a brief note on origin and evolution of birds.
3. Describe different types of beaks and claws in birds with the help of suitable diagrams.
4. Write an elaborated note on migration in birds.
5. Explain in detail the structure and development of mammalian canine and molar tooth along with well labelled diagram.

OR

Differentiate between Crocodylus, Alligator and Gavialis along with illustrating diagrams.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Describe general characters of phylum Chordata.
2. Describe various affinities of Hemichordata with Chordata, Annelida and Echinodermata.

3. Write a short note on evolutionary significance of Axolotl larava.
  4. Write a short note on Lacertilian and Crocodilian characters of Rhynchocephalia (*Sphenodon*).
  5. Write a short note on distribution and characters of flightless birds.
  6. Explain briefly various flight adaptations found in birds.
  7. Write a short note on various affinities of subclass Prototheria.
  8. Describe kinds of teeth along with suitable diagrams.
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