

This question paper contains 2 printed pages]

NY—12—2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New/CBCS Course)

ZOOLOGY

Paper-XI

(Vertebrates-Structure and Function)

(Tuesday, 5-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (1) Attempt *all* questions.

(2) *All* questions carry equal marks.

(3) Illustrate your answers with suitable labelled diagrams wherever necessary.

1. Give an account of structure of Cephalochordata and discuss affinities of the group. 15

Or

Give an account of classification of Vertebrates. Add a note on origin of Vertebrates.

2. Describe the structure of Integument in Vertebrates and explain its functions. 15

Or

What is Blood ? Give an account of composition and functions of Mammalian Blood.

3. Describe various types of respiratory organs in Vertebrates. 15

Or

Give a comparative account of skeleton of Forelimbs in different Vertebrates.

P.T.O.

WT

(2)

NY—12—2023

4. Give a general account of the evolution of urinogenital system in Vertebrates. 15

Or

What are Photoreceptors ? Describe in brief structure and function of photoreceptors in Vertebrates.

5. Write short notes on any *three* of the following : 15

- (a) Origin of Vertebrates
- (b) Venous heart
- (c) Cutaneous Respiration
- (d) Metanephros.

NY—12—2023

2