This question paper contains 2 printed pages]

## NA-77-2023

## FACULTY OF SCIENCE AND TECHNOLOGY

## B.Sc. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New Pattern)

**ZOOLOGY** 

Paper-IV

(Developmental Biology of Vertebrates)

## (Saturday, 16-12-2023) Time : 10.00 a.m. to 12.00 noon Time—2 Hours Maximum Marks—40

N.B. := (i) Attempt all questions.

- (ii) Illustrate your answers with suitable and labelled diagrams wherever necessary.
- What is spermatogenesis? Describe in detail the process of spermatogenesis in mammals.

Or

- (a) What is fertilization? Explain the event occurs in fertilization of frog. 8
- (b) Describe the structure of ovum of frog.

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2. What is foetal membrane? Explain the structure and functions of yolk sac and Allantois.

P.T.O.

WT (2) NA—77—2028

- (a) Explain the causes, diagnosis and treatment of infertility in female. 8
- (b) Explain incomplete parthenogenesis.
- 3. Write short notes on any two of the following:
  - (a) Regenration in chordates
  - (b) Megalecithal egg
  - (c) Functions of placenta
  - (d) Gamete Intra Fallopian Transfer (GIFT).