

This question paper contains 2 printed pages]

SA—77—2025

FACULTY OF SCIENCE AND TECHNOLOGY

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

APRIL/MAY, 2025

ZOOLOGY

Paper IV

(Developmental Biology of Vertebrates)

(Thursday, 24-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—40

Note :— (i) Attempt *all* questions.

(ii) Draw neat labelled diagram wherever necessary.

1. Explain the types of eggs on the basis of amount of egg and distribution of yolk. 15

Or

(a) What is cleavage ? Explain cleavage in frog. 8

(b) Describe the structure of sperm of frog. 7

2. Explain the structure and functions of extra embryonic membranes. 15

Or

(a) Describe causes of infertility in male and female. 8

(b) Describe Gamete Intra Fallopian Transfer (GIFT). 7

P.T.O.

WT

(2)

SA—77—2025

3. Write short notes on any *two* of the following :

10

- (a) Spermiogenesis
- (b) Blastulation
- (c) Functions of placenta
- (d) IVF (In-vitro Fertilization).

SA—77—2025

2