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VA—77—2024

FACULTY OF SCIENCE AND TECHNOLOGY

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

NOVEMBER/DECEMBER, 2024

(New Course)

ZOOLOGY

Paper-IV

(Developmental Biology of Vertebrates)

(Friday, 13-12-2024)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :- (1) Attempt *all* questions.

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

1. What is oogenesis ? Describe in detail the process of oogenesis in mammals. 15

Or

(a) What is fertilization ? Explain the event of fertilization in frog. 8

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

2. Explain the structure and functions of Chorion and Amnion. 15

Or

(a) Infertility in male—cause, diagnosis and treatment. 8

(b) Explain In-vitro Fertilization (IVF). 7

P.T.O.

WT

(2)

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

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- (a) Regeneration in chordates
- (b) Microlecithal egg
- (c) Function of placenta
- (d) ZIFT (Zygote Intra Fallopian Transfer).

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