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**GA—100—2023**

**FACULTY OF SCIENCE AND TECHNOLOGY**

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

**APRIL/MAY, 2023**

**(New Pattern)**

**ZOOLOGY**

**Paper IV**

**(Developmental Biology of Vertebrates)**

**(Tuesday, 9-5-2023)**

**Time : 10.00 a.m. to 12.00 noon**

*Time— Two Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt All questions.*

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

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

*Or*

(a) Explain Cleavage in Frog. 8

(b) Describe the structure of Sperm of Frog. 7

2. Describe the Extra Embryonic membranes in chick and explain their functions. 15

*Or*

(a) Explain various causes of infertility in Humans. 8

(b) Explain Gamete Intrafallopian Transfer (GIFT). 7

**P.T.O.**

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

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- (a) Vitellogenesis in birds
- (b) Regeneration in chordates
- (c) Functions of Placenta
- (d) Natural Parthenogenesis.

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