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**25-ZO-42**

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION  
MAY - JUNE 2025**

**ZOOLOGY**

Paper - II

**[Gamete Biology Development and Differentiation]**

*[Max. Marks : 75]*

*[Time : 3:00 Hrs.]*

*[Min. Marks : 26]*

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**Note :** Candidate should write his/her Roll Number at the prescribed space on the question paper.  
Student should not write anything on question paper.  
Attempt all five questions. Each question carries an internal choice.  
Each question carries **15 marks**.

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**Q. 1** Explain biochemistry of semen, semen composition, formation and assessment of sperm function.

**OR**

Explain Fertilization in detailed.

**Q. 2** Write an essay on Oogenesis.

**OR**

Describe multiple ovulation and embryo transfer technology in detailed.

**Q. 3** Describe hormonal regulation of ovulation pregnancy and parturition.

**OR**

Write an essay on Cryopreservation of gamete and embryo.

**Q. 4** Describe Chick Embryology in detailed.

**OR**

Write an essay on Melanogenesis.

**Q. 5** Explain connective tissue cell family.

**OR**

Describe hematopoietic stem cell in detailed.