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**24-ZO-21**

**M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION  
JUNE - JULY 2024**

**ZOOLOGY**

Paper - I

**[General and Comparative Animal Physiology and Endocrinology]**

*[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 five questions. Each question carries an internal choice.  
Each question carries **15 marks**.

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**Q. 1** Describe process of transport of oxygen and carbon dioxide in blood and body fluids.

**OR**

Describe physiology of nerve impulse transmission through nerves and synapses.

**Q. 2** Describe process of osmoregulation in different animal groups.

**OR**

Describe physiology of Pregnancy.

**Q. 3** Write an essay on comparative study of Photo reception.

**OR**

Write an essay on comparative study of phonoreception and equilibrium reception.

**Q. 4** Describe process of Bioluminescence.

**OR**

Describe mechanism of hormone action.

**Q. 5** Describe structure and function of pituitary gland.

**OR**

Write an essay on Hormone receptors and signal transduction mechanism.