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**25-ZO-21**

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

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

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**Q. 1** Write an essay on Regulation of respiration.

**OR**

Describe Autonomic nervous system, neurotransmitters and their physiological functions.

**Q. 2** Describe comparative physiology of digestion.

**OR**

Describe Thermoregulation in homeotherms, poikilotherms and hibernation.

**Q. 3** Describe comparative study of Mechanoreception.

**OR**

Describe comparative study of Lateral line systems in fishes.

**Q. 4** Write an essay on Hormones, chemical nature and their classification.

**OR**

Write an essay on chromatophores and regulation of their function among animals.

**Q. 5** Describe Neuroendocrine system in Vertebrates.

**OR**

Describe structure and function of Pancreas and Adrenal Gland.