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## SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025 (Regular/Improvement/Supplementary) ZOOLOGY GZOL6B10T: PHYSIOLOGY AND ENDOCRINOLOGY

Time: 2 Hours Maximum Marks: 60

## SECTION A: Answer the following questions. Each carries *two* marks. (Ceiling 20 marks)

- 1. What is cerebro-vascular accident?
- 2. What are respiratory pigments? Cite examples.
- 3. Define counter-current mechanism.
- 4. What are the physiological problems in diving mammals?
- 5. Write on Aphaeresis and its uses.
- 6. Thymus is an endocrine organ. Substantiate the statement.
- 7. What is the role of creatine phosphate in muscle contraction?
- 8. What are the functions of electric organs?
- 9. Differentiate between type I and type II diabetes.
- 10. What are the types of bioluminescence?
- 11. Comment on the hormones in insects.
- 12. Write on ruminant digestion.

## SECTION B: Answer the following questions. Each carries *five* marks. (Ceiling 30 marks)

- 13. Comment on osmotic and ionic regulation in marine animals.
- 14. Write on ultrastructural changes during muscle contraction.
- 15. Discuss about the causes and consequences of obesity.
- 16. Name the hormones produced by hypothalamus. Write the functions of these hormones.
- 17. Discuss about hormones secreted from Placenta and their physiological effects.
- 18. Write on oxygen-hemoglobin dissociation curve and mention the factors affecting it.
- 19. What is blood coagulation cascade? Explain.

## SECTION C: Answer any *one* question. The question carries *ten* marks.

- 20. Write an essay on nerve impulse transmission.
- 21. Describe the mechanism of hormonal action.