22U617 (Pages: 2) Name : .....

Reg. No : .....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025

(CBCSS-UG)

(Regular/Supplementary/Improvement)

CC19U ZOL6 B10 - PHYSIOLOGY AND ENDOCRINOLOGY

(Zoology - Core Course)

(2019 Admission onwards)

Time: 2 Hours Maximum: 60 Marks

Credit: 3

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. What is colostrum? Give its significance.
2. Define Hamostasis.
3. Define ESR. What is the commonly used method in determining ESR.
4. Define uricotelism.
5. What is acidosis?
6. What are isotropic bands?
7. What is motor end plate?
8. Explain the importance of calicium ions in muscle contraction.
9. What is a neurotransmitter?
10. Define synergism among hormones with an example.
11. Define FSH and LH.
12. Define hypothalamic-hypohysial axis of endocrine system.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer ***all*** questions. Each question carries 5 marks.

13. Explain about Nutritional disorders.
14. Explain Oxygen- Haemoglobin dissociation curve and its significance.
15. Illustrate the physiological problems in diving mammals.
16. Describe giant nerve fibres.

17. Explain the major endocrine structures of insects and its role in insect metamorphosis.

18. Describe structure, functions and pathophysiology of pituitary gland.

19. Explain hormonal action at the level of nuclear receptors with an example.

(Ceiling: 30 Marks)

Part C (Essay questions)

Answer any ***one*** question. The question carries 10 marks.

20. Describe the process of urine formation in man using suitable diagrams.

21. Illustrate bioluminiscense.

(1 × 10 = 10 Marks)

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