

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2016**SEMESTER V - CORE COURSE (ZOOLOGY)****ZOO5BHP - BIOCHEMISTRY, HUMAN PHYSIOLOGY & ENDOCRINOLOGY****Time: Three Hours****Maximum Marks: 60****PART A****I. Answer all questions. Each question carries 1 mark.**

1. Name a stereoisomer of Glucose.
2. What are ketone bodies?
3. Niacin deficiency will results in the disease.
4. Structural and functional unit of lungs.
5. Most abundant granulocyte in blood.
6. Name the osmostat of Kidney.
7. Which part of the cell does the hormone receptor of thyroid hormones situated in?
8. Which hormone is known as hormone of abundance?

(8x1= 8)**PART B****II. Answer any six questions. Each question carries 2 marks.**

9. Comment on functions of Calcium.
10. Compare and contrast isotonic and isometric contractions.
11. Define anticoagulant? Give example.
12. Comment on kidney stone.
13. Give a brief account on oxygen debt.
14. Comment on dyslexia.
15. Discuss the benefits of exercise in body fitness.
16. Classify of hormones based on chemical nature.
17. Explain transamination reaction in the catabolism of amino acids.
18. What are isoenzymes?

(6x2=12)**PART C****III. Answer any four questions. Each question carries 4 marks.**

19. Explain the urea cycle.
20. Comment on the functions of hormones of adrenal cortex.
21. Explain the factors that influence the action of enzymes.
22. Comment on blood groups in human.
23. What is hypoxia? Explain different types.
24. What are the physiologically important compounds synthesized from cholesterol?

(4x4=16)

PART D

IV. Answer any two questions. Each question carries 12 marks.

25. Describe the ultrastructure of striated muscle. Elaborate on the mechanism of muscle contraction.
26. Give a detailed account of hormones, their functions and disorders of hypothalamus and anterior lobe of pituitary gland.
27. Give an account of citric acid cycle and the yield of ATP on complete oxidation of one molecule of glucose.
28. Elaborate on the transport of respiratory gases in humans.

(2x12=24)