

**B.Sc. DEGREE END SEMESTER EXAMINATION OCTOBER 2017****SEMESTER –5: ZOOLOGY (CORE COURSE)****COURSE: 15U5CRZOO08: BIOCHEMISTRY, HUMAN PHYSIOLOGY AND ENDOCRINOLOGY***(For Regular 2015 admission)*

Time: Three Hours

Max. Marks: 60

## Instructions

Answer **all** questions in part A. Answer **any 6** questions from part B, **any 4** from part C and **any 2** from part D.

**PART A**

1. Microelements
2. Asphyxia
3. Dope test
4. What are steroid hormones?
5. What happen if the temperature of an enzyme catalyzed system is raised to 64 °C
6. Ketosis
7. Enetrogastrone
8. Alveoli (1 x 8 = 8)

**PART B**

9. Differentiate electrical and chemical synapse
10. What are allosteric enzymes?
11. Write note on the physiological effects smoking
12. What are the dietary significance of antioxidants?
13. Name the hormones secreted by hypothalamus
14. Mention the biological importance of proteins
15. Draw the structure of a typical neuron
16. Explain role of calcium in blood clotting? (2 x 6 = 12)

**PART C**

17. Comment on vitamins deficiency disorders
18. Write note on the functions and disorders of growth hormone
19. Briefly explain the mechanism of enzyme action
20. Explain neural and chemical control of respiration
21. Illustrate the formation blood cells
22. Comment on Beta oxidation (4 x 4 = 16)

**PART D**

23. Write an essay on citric acid cycle
24. Illustrate the Mechanism of muscle contraction
25. Write an essay on the urine formation
26. Explain various neuronal disorders (12 x 2 = 24)