B.Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER/NOVEMBER 2018

SEMESTER –5: ZOOLOGY (CORE COURSE)

COURSE: **U5CRZOO8: BIOCHEMISTRY, HUMAN PHYSIOLOGY AND ENDOCRINOLOGY**

(For Supplementary 2014 - admission)

Time: Three Hours   Max. Marks: 60

PART A

*Answer **ALL** questions. Each question carries **1** mark.*

1. What is Balanced diet
2. What is action potential?
3. Name the master gland?
4. What is dope test
5. Explain neurotransmitters with example.
6. What is homoeostasis?
7. What are conjugated enzymes?
8. Which are the proteins associated with actin filaments?   (1 x 8 = 8)

PART B

*Answer **ANY Six** questions. Each question carries **2** marks.*

9. What is the difference between Aldoses and Ketoses? Give examples.
10. Explain tetany.
11. What is the significance of uricotelism in animal kingdom?
12. What is the classification of animals based on excretory product?
13. Which are the different classes of proteins? Give examples.
14. What is all-or-none law in neurophysiology?
15. Mention the benefits of breast feeding
16. Explain respiratory pigment citing two examples.   (2 x 6 = 12)

PART C

*Answer **ANY Four** questions. Each question carries **4** marks.*

17. How is gluconeogenesis important in homeostasis of body?
18. Write a note on the structure of proteins.
19. Which are the different types of muscles in the body?
20. Explain Chloride shift associated with the transport of Carbon dioxide in blood?
21. Which are the major blood clotting disorders?
22. In a synapse, action potentials are always transmitted from an axon to a dendron. Why is it never transmitted from a dendron to an axon?   (4 x 4 = 16)

PART D

*Answer **ANY Two** questions. Each question carries **12** marks.*

23. Briefly describe the process of urine formation.
24. Write an essay on the classification of Carbohydrates giving examples.
25. Explain the generation and propagation of impulse in a neuron.
26. Give the steps in glycolysis, commenting the type of chemical reaction that takes place in each step.   (12 x 2 = 24)