

B.Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2019**SEMESTER –5: ZOOLOGY (CORE COURSE)****COURSE: 15U5CRZOO08: BIOCHEMISTRY, HUMAN PHYSIOLOGY AND ENDOCRINOLOGY***(Common for Regular 2017 Admission & Improvement 2016/Supplementary 2016/2015 Admissions)*

Time: Three Hours

Max. Marks: 60

*Instructions:1. Time allotted for the examination is 3 Hours**2. 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. What are zwitter ions?
2. Write down the energy balance sheet of glycolysis.
3. What is thrombosis?
4. What is Cori cycle?
5. What is schizophrenia.?
6. What is an isometric muscle contraction?
7. Give two examples for iodothyronines.
8. What are synergistic hormones?

(1 x 8 = 8)

PART B

9. What is transamination? Give an example.
10. What is β -oxidation?
11. What are isozymes? Give examples.
12. What are the advantages of breast feeding to mother?
13. Differentiate between hypoxia and hypocapnia.
14. What is glomerulo nephritis?
15. Explain latent and refractory periods in a muscle contraction.
16. List out the placental hormones.

(2 x 6 = 12)

PART C

17. Explain the four levels of organization in protein structure.
18. What is ornithine cycle?
19. Explain oxy-hemoglobin curve.
20. Mention different neural disorders in man.
21. Explain the ultra-structural changes occurring during muscle contraction.
22. Write on Thyroid and Parathyroid hormones.

(4 x 4 = 16)

PART D

23. Discuss in detail the mechanism of enzyme action and different factors that influence enzyme action.
24. Write an essay on Electrical, chemical and morphological changes during contraction of striated muscle.
25. Elaborate on the transport of respiratory gases in man.
26. Explain the classification of hormones and the general principle and of hormone action. (12 x 2 = 24)