

B.Sc. DEGREE END SEMESTER EXAMINATION OCTOBER/NOVEMBER 2018**SEMESTER –5: ZOOLOGY (CORE COURSE)****COURSE: 15U5CRZOO08: BIOCHEMISTRY, HUMAN PHYSIOLOGY AND ENDOCRINOLOGY***(Common for Regular 2016 admission & Supplementary 2015 admission)*

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. Addison's disease
2. Recommended Daily Allowance
3. Juxtaglomerular apparatus
4. Tidal Volume
5. Peptide bond
6. Pyruvate dehydrogenase
7. A patient injected with drug molecules of 10nm diameter, what is the possibility of reaching the molecules in the brain?
8. Gastrin (1 x 8 = 8)

PART B

9. Mention the biological importance of Carbohydrates
10. What is Glomerulonephritis?
11. Write note on anticoagulants
12. Comment on Bohr effect
13. Write note on Alzheimer's disease
14. Name the essential amino acids
15. Pancreas of a 15 year girl removed after an accident. What might be the after effect?
16. What is the clinical significance of ESR? (2 x 6 = 12)

PART C

17. Comment on the glycolysis pathway

18. What are the various respiratory disorders?
19. Write note on the respiratory and cardiovascular changes during exercise
20. Explain various factors influencing enzyme action
21. What are the defects of modern food habits?
22. Briefly explain urea cycle (4 x 4 = 16)

PART D

23. Write an essay on the mechanism of blood clotting
24. What are the functions and disorders of hormones of pituitary gland?
25. Write an essay on the ultra structure of striated muscle
26. Illustrate impulse transmission through neurons; mention the role of synapse (12 x 2 = 24)