

TB205495V

Reg. No : .....

Name : .....

**B. Sc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022**  
**2020 ADMISSIONS REGULAR AND 2019, 2018 ADMISSIONS SUPPLEMENTARY**  
**SEMESTER V - CORE COURSE (ZOOLOGY)**  
**ZY5B08B18 - HUMAN PHYSIOLOGY, BIOCHEMISTRY & ENDOCRINOLOGY**

Time : 3 Hours

Maximum Marks : 60

**Part A**

**I. Answer any Ten questions. Each question carries 1 mark** **(10x1=10)**

1. Name the following a) Universal Antioxidant b) Suicidal Antioxidant.
2. Expand (a) RDA (b) TCA.
3. Explain Haldane effect.
4. Define A) Erythropoiesis B) Haematocrit value.
5. Name the 2 types of dialysis.
6. List any 2 Neural disorders.
7. Give a brief account on Dyslexia.
8. Which vitamin is otherwise called (a) Thiamine (b) Anti xerophthalmic vitamin ?
9. Explain Conjugated proteins.
10. Differentiate between Substrate and Oxidative phosphorylation.
11. Write notes on Second messenger.
12. Name the birth hormone.

**Part B**

**II. Answer any Six questions. Each question carries 5 marks** **(6x5=30)**

13. Write a note on the health benefits and other uses of antioxidants.
14. Give an account of different types of leucocytes in man. Mention their functions.
15. Elaborate on any 3 muscle proteins.
16. With the help of a labelled diagram describe the structure of a Neuron. Discuss the various types of Neurons found in man.
17. Write briefly on the mechanism of enzyme activity.
18. Explain A) Glycogenolysis B) Allosteric enzymes.
19. Enumerate the various types of Protein metabolism.
20. Comment on homeostasis and feedback mechanism of hormones citing suitable examples.
21. Describe the structure of hypothalamo-hypophyseal complex and its secretions in man.

**Part C**

**III. Answer any Two questions. Each question carries 10 marks** **(2x10=20)**

22. Explain Oxygen dissociation curve. Sketch and label. Add a note on the factors affecting Oxygen dissociation curve.
23. Write an essay on the mechanism of urine formation. Give suitable figures.
24. Define synapse. Give an account of the different types of Synaptic transmission. Write briefly on any 2 neurotransmitters.

25. Give an account on Protein structure.