22101838

QP CODE: 22101838

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATIONS, MAY 2022

Fifth Semester

CORE COURSE - ZY5CRT08 - HUMAN PHYSIOLOGY, BIOCHEMISTRY & ENDOCRINOLOGY

Common for B.Sc Zoology Model I, B.Sc Zoology Model II Aquaculture, B.Sc Zoology Model II Food Microbiology, B.Sc Zoology Model II Medical Microbiology, B.Sc Biological Techniques and Specimen Preparation Model III & B.Sc Zoology and Industrial Microbiology Model III Double Main

2019 Admission Only

CE19D94E

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. How many molecules of oxygen can be carried by a saturated haemoglobin?
2. What is asphyxia?
3. What is Erythropoiesis?
4. Name the pigment that produces yellow colour in Jaundice.
5. What are podocytes ?
6. Define Homeostasis .
7. Name the renal disorder which develops due to the progressive destruction of nephrons over several months?
8. What is the end product of anaerobic glycolysis ?
9. Differentiate between monosaccharides and polysaccharides.
10. What is a co-enzyme?

11. Name the protein which is linked to thyroid hormones during their storage.

12. Name any two disorders due to hypersecrection of Growth hormone.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write a brief account of a balanced diet.

14. With the help of a suitable diagram explain Bohr effect.

15. Write down the basic reaction in blood coagulation.

16. Briefly explain tubular reabsorption.

17. How resting potential is generated in a nerve fiber?

18. Describe the energetics of muscle contraction.

19. Write an account on the classification of amino acids with examples.

20. Explain the role of water soluble vitamins in man. Mention the diseases caused by deficiencies of water soluble vitamins.

21. Comment on the important derivatives of Cholesterol.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Describe the absorption and assimilation of proteins in the intestine.

23. Briefly explain different kinds of neuronal disorders.

24. Describe the ultrastructure of vertebrate skeletal muscle.

25. Discuss the significance of Protein catabolism citing examples.

(2×10=20)