QP CODE: 22100089

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Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, JANUARY 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

2017 Admission Onwards

52B8D7A5

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is marasmus?
2. Identify the oxygen binding proteins present in blood and muscles.
3. What is asphyxia?
4. Expand ESR
5. What is JGA ?
6. What is the function of acetylcholine in vertebrate nervous system.
7. Define sarcomere.
8. Name any two energy rich compounds found in muscles.
9. Differentiate between essential amino acids and non-essential amino acids.
10. Write down two important functions of vitamin C.
11. What is meant by oxidative phosphorylation?
12. Which endocrine gland is known as third eye?

(10×1=10)

Part B

*Answer any **six** questions.*

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

13. What are the factors influencing the RDA in man?
14. Write down the basic reaction in blood coagulation.
15. What is Thrombosis? Mention different types of thrombosis.
16. Comment on the Renin- Angiotensinogen- Angiotensin System.
17. Explain the reasons for developing kidney stones.
18. Describe the conditions that lead to muscle fatigue. What is rigor mortis?
19. Write an account on the biological importance of carbohydrates.
20. Describe the chemical nature of enzymes. Write an account on coenzymes.
21. Give a note on the structure of Cholesterol. Mention its functions.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Describe the digestion of protein in alimentary canal of man.
23. Write an essay on the different steps of urine formation in man .
24. Write a note on different types of synapses. Add a note on the mechanism of synaptic transmission across different synapses.
25. Discuss the significance of Protein catabolism citing examples.

(2×10=20)