QP CODE: 19002383

19002383

Reg No : .....

Name : .....

M.Sc. DEGREE (C.S.S) EXAMINATION, NOVEMBER 2019

First Semester

Faculty of Science

ZOOLOGY

Core - ZL010103 - BIOCHEMISTRY

2019 Admission Onwards

5D4C975C

Time: 3 Hours

Maximum Weight :30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Explain the nomenclature of Carbohydrates?
2. Galactose is highly toxic if the transferase is missing.Explain.
3. What are Ramachandran angles? What is their significance?
4. What is glucose alanine shuttle?
5. What is lipid peroxidation.
6. Explain the role of triglycerides and phospholipids in health and disease.
7. Explain why DNA strands can be separated more easily at pH >11?
8. Explain Helix-loop-helix motif
9. Comment on ribozymes.
10. What is MWC model?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain the regulation and significance of citric acid cycle.
12. Explain the role of Insulin and Glucagon on carbohydrate metabolism

13. How does the activity of proteins are regulated in a cell?
14. Explain how do ketogenic aminoacids give rise to ketone bodies.
15. Distinguish between Cerebrosides and Gangliosides.
16. What are ketone bodies? How they are formed? Comment on their clinical significance.
17. Explain briefly catabolism of purines.
18. Summarise the key features of the active sites of enzymes.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Write an essay about glycogen metabolism and its regulation ?
20. Explain the relation between structure and chemical properties of aminoacids.
21. Write an account of the structure, type and biological function of prostaglandins.
22. Write an essay about kinetics of enzyme inhibition.

(2×5=10 weightage)