

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

SECOND SEMESTER – APRIL 2010

ZO 2816 / 2810 - BIOCHEMISTRY

Date & Time: 21/04/2010 / 1:00 - 4:00

Dept. No.

Max. : 100 Marks

PART – A

Answer **ALL** the questions

10 x 2 = 20 Marks

1. Differentiate symport from antiport.
2. Comment on solid bile alcohol.
3. What are colloids?
4. Write a note on Scurvy.
5. What are co-enzymes?
6. What is V_{max} ?
7. Write a note on Rancidity.
8. What are Zwitterions?
9. Comment on saponification
10. Differentiate HDL from LDL.

PART – B

Answer any **FOUR** questions

4 x 10 = 40 Marks

11. Summarize the functions of proteins.
12. Describe the process of anabolism of nucleotides.
13. Explain the catabolic process of purines.
14. What is β -oxidation? Explain.
15. Explain the importance of Micheal's Menton equations.
16. Give an account on structure and function of carbohydrates.

PART – C

Answer any **TWO** questions

2 x 20 = 40 Marks

17. Write an essay on transport across membranes.
18. Discuss the biochemistry of lipids.
19. Explain in detail the reaction characteristics of protein molecule.
20. Write an essay on biochemistry of vitamins.
