



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION - ZOOLOGY**

**SECOND SEMESTER – APRIL 2013**

**ZO 2816 - BIOCHEMISTRY**

Date : 02/05/2013

Dept. No.

Max. : 100 Marks

Time : 9:00 - 12:00

**Part A**

**Answer All the questions**

**(10×2=20 Marks)**

1. What are Fat soluble vitamins?
2. Write a note on cytochromes.
3. Comment on nucleoproteins.
4. What is phosphorylation?
5. Write a note on carboxylation.
6. Differentiate essential amino acid from non essential amino acid.
7. What are called conjugated proteins?
8. What is stereoisomerism?
9. What are Zwitter ions?
10. Comment on rancidity.

**Part B**

**Answer any FOUR questions**

**(4×10=40 Marks)**

11. Describe the process of anabolism of nucleotides.
12. Explain the catabolism of amino acids.
13. Elaborate  $\beta$  - oxidation.
14. Bring out the biochemical characteristics of protein.
15. Describe the process of catabolism of carbohydrates.
16. Explain the process of biosynthesis of nucleotides

**Part C**

**Answer any TWO questions**

**(2×20=40 Marks)**

17. Write an essay on the biochemistry of transport across biological membrane.
18. Describe and discuss trends in biochemistry.
19. Form an essay on the catabolism of nucleotides
20. Give an account on Michael's Menton equation.

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