 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

SECOND SEMESTER – NOVEMBER 2012

# ZO 2816 - BIOCHEMISTRY

Date : 03/11/2012 Dept. No. Max. : 100 Marks

Time : 1:00 - 4:00

**Part A**

**Answer All the questions: (10×2=20 Marks)**

1. What are free radicals?
2. Differentiate I order reaction from II order reaction.
3. Write a note on the following: (i) Rancidity (ii) Emulsification.
4. What are ‘Zwitter ions’?
5. Comment on ‘stereo isomerism’.
6. Write a note on Symport and Uniport
7. What are ‘Ozazone’s?
8. What are nuclear proteins?
9. Write a note on oxidative phosphorylation.
10. Comment on the optical activity of carbohydrates.

**Part B**

**Answer any Four questions: (4×10=40 Marks)**

1. Bring out the biochemistry and importance of fat soluble vitamins.
2. Describe the process of catabolism of nucleotides.
3. Explain B-oxidation.
4. Bring out the Michaelis-Menton equation and its importance.
5. Describe the general characteristics of proteins.
6. Describe the biochemistry of electron transport system.

**Part C**

**Answer any TWO questions: (2×20=40 Marks)**

1. Form an essay on the biochemistry of enzymes.
2. Explain biosynthesis of nucleotides.
3. Bring out the structure and functions of proteins.
4. Form an essay on biosynthesis of carbohydrates.

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