



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – NOVEMBER 2014

ZO 3815 - BIO CHEMISTRY & ANIMAL PHYSIOLOGY

Date : 05/11/2014

Dept. No.

Max. : 100 Marks

Time : 09:00-12:00

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. Differentiate myopia from astigmatism.
2. Write a note on photochemical reactions.
3. What is intermediary metabolism?
4. What is β -oxidation?
5. Write a note on biological clock.
6. What is ping -pong mechanism?
7. Comment on oxidative phosphorylation.
8. Bring out the classification of enzymes.
9. Define hydrogen ion concentration.
10. What is stereoisomerism?

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. What is trichromatic theory? Explain.
12. Describe the process of catabolism of fatty acids.
13. How do animals adapt to stressful conditions – Explain.
14. Bring out Michaelis-Menton equation.
15. Explain the process of different feeding among animals mechanisms.
16. Describe the process of biosynthesis of nucleotides.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Form an essay on thermal regulations.
18. Describe the biosynthetic pathways of triglycerides and cholesterol.
19. Form an essay on peripheral circulation and its control mechanisms.
20. Write an essay on the regulation of heart beat, the biochemistry of transport and exchange of gases.
