



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – APRIL 2014

ZO 3815 - BIO CHEMISTRY & ANIMAL PHYSIOLOGY

Date : 05/04/2014

Dept. No.

Max. : 100 Marks

Time : 01:00-04:00

Part-A

Answer All the questions

(10×2=20 Marks)

1. Differentiate stenohaline from euryhaline.
2. What are Gap junction?
3. What is V max?
4. Comment on photophores'.
5. What is apneustic center?
6. Comment on lipidosis.
7. What are Zwitterions?
8. Comment on chloride shift.
9. Differentiate poikilotherms from homoeotherms.
10. What are chylomicrons?

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. What is β oxidation? Explain.
12. Explain the process of bio synthesis of fatty acids.
13. Describe intermediary metabolism.
14. Describe the physiology of osmo-regulation in different animals.
15. Explain carbohydrate catabolism.
16. Briefly write the neural and chemical regulation of respiration.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Write an essay on the biochemistry and physiology of bioluminescence.
18. Explain muscle physiology and neural control of muscle contraction.
19. Bring out Michaelis - Menton equation and its importance.
20. Give an account on Chronobiology and its relevance on general physiology.
