



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

**M.Sc. DEGREE EXAMINATION – ZOOLOGY**

**THIRD SEMESTER – NOVEMBER 2016**

**ZO 3815 - BIO CHEMISTRY & ANIMAL PHYSIOLOGY**

Date: 05-11-2016  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**Part-A**

**Answer ALL the questions**

**(10×2=20 Marks)**

1. What are chloride secreting cells?
2. Write a note on peripheral arterial diseases.
3. What are cytochromes?
4. Differentiate osmoconformers with osmoregulators.
5. What is a cellular respiration?
6. Name any four electrogenic fishes.
7. Comment on biological clock.
8. What is balanitic acid? Bring out its importance.
9. Write a note on the significance of cholesterol.
10. What is ping-pong mechanism?

**Part-B**

**Answer any FOUR questions**

**(4×10=40 Marks)**

11. Describe the process of fatty acid synthesis.
12. Explain muscle physiology.
13. What is intermediary metabolism?
14. Describe the process of enzyme inhibition.
15. Explain about the respiratory and circulatory responses to extreme conditions of stress.
16. What is called  $\beta$ -oxidation – Describe.

**Part-C**

**Answer any TWO questions**

**(2×20=40 Marks)**

17. Form an essay on chromatophores and bioluminescence.
18. Describe and discuss enzyme kinetics and importance of Michelis-Menton equation.
19. Write an essay on the catabolism of carbohydrates and lipids.
20. Write an essay on osmoregulation in aquatic and terrestrial animals.

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