



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

THIRD SEMESTER – NOVEMBER 2013

ZO 3815 - BIO CHEMISTRY & ANIMAL PHYSIOLOGY

Date : 09/11/2013

Dept. No.

Max. : 100 Marks

Time : 9:00 - 12:00

Part-A

Answer All the questions

(10×2=20 Marks)

1. What are enzyme inhibitors?
2. Write a note on ping pong mechanism.
3. What is homoeostasis?
4. Define Knoop's theory.
5. Differentiate co-factors from co-enzymes.
6. What are zymogens?
7. Comment on circadian rhythm.
8. Write a note on scintillons.
9. Comment on sliding filament theory.
10. Differentiate transamination from deamination.

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Describe the process of catabolism of protein.
12. Bring out the bio chemical and physiological aspects of thermoregulation.
13. Write short note on lipid metabolism.
14. Describe the bio-synthetic path ways of cholesterol.
15. Explain how body pH regulation is achieved?
16. What are electric organs? Where do you come across bio-electricity?

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Write about different feeding mechanisms and their control.
18. Write an essay on the physiology of peripheral circulation.
19. Describe and discuss the neural and chemical regulation of respiration.
20. Discuss about the recent trends in biochemistry.
