

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – APRIL 2010

ZO 3810 / 3807 - INTEGRATED PHYSIOLOGY

Date & Time: 23/04/2010 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART – A

Answer ALL the questions

(10 x 2 = 20 Marks)

1. Define Homeostasis?
2. Distinguish stenohaline from euryhaline organism with an example each.
3. Comment on respiratory quotient.
4. Write a note on “ornithine cycle”
5. Distinguish smooth muscle from striated muscle.
6. Differentiate oestrogen from androgen.
7. Comment on myopia.
8. Comment on gustatory system.
9. Write a note on imprinting
10. Distinguish rheotaxis from galvanotaxis.

PART – B

Answer any FOUR

(4 x 10 = 40 Marks)

11. Explain neurosecretions in insects.
12. Write notes on osmoregulation in fishes.
13. Describe reflex action with a suitable example.
14. Describe the structure of human ear.
15. Enumerate the respiratory pigments.
16. Explain thermoregulation in poikilotherms.

PART – C

Answer any TWO

(2 x 20 = 40 Marks)

17. Write an essay on physiology of excretion in man and hormonal control.
18. Discuss carbohydrate metabolism.
19. Write an essay on mammalian autonomous nervous system.
20. Elaborate acquired animal behavior.
