

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – APRIL 2016

AZ 3504/AZ 3500 – ANIMAL PHYSIOLOGY

Date: 28-04-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

Answer ALL the questions

(10x2=20 marks)

Define / Explain

1. Basal metabolism
2. Glycolysis
3. Myogenic heart
4. Neurogenic heart
5. Biological clock
6. Circadian rhythm.
7. Synapse
8. Acetylcholine esterase
9. Feedback mechanism
10. Neurohormones.

PART – B

Answer any FOUR of the following

(4x10=40 marks)

11. Describe the various types of respiratory pigments.
12. Explain the different types of excretory products.
13. Describe the thermoregulation in poiklotherms.
14. Explain the mechanism of ionic regulations.
15. Describe the transmission of nerve impulse along the nerve fiber.
16. Describe the various functions of pituitary hormone.

PART – C

Answer any TWO of the following

(2x20=20 marks)

17. Explain the Kreb's cycle.
18. Describe the physiology of urine formation and its eliminations.
19. Describe the muscle protein and theories of muscle contraction.
20. Explain the endocrine regulation in insects.

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