

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – APRIL 2018

AZ 3508– ANIMAL PHYSIOLOGY & BIOCHEMISTRY

Date: 05-05-2018
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART – A

ANSWER ALL QUESTIONS:

(10 X 2 = 20 marks)

Define the following:

1. Monosaccharides
2. Fat soluble vitamins
3. Neurogenic heart
4. Haemodynamics
5. Thermoregulation
6. Osmoregulation
7. Glycogenolysis
8. Glyconeogenesis
9. Coenzyme
10. Michaelis-menton equation

PART – B

ANSWER ANY FOUR IN BRIEF:

(4 X 10 = 40 marks)

11. Explain the various types of respiratory pigments
12. Write the composition and functions of blood
13. Write the mechanism of ionic regulation.
14. Describe the biological clocks.
15. Write the hormonal control of carbohydrate metabolism.
16. Write the functional properties of enzymes.

PART – C

ANSWER ANY TWO IN DETAIL:

(2 X 20 = 40)

17. Write an essay on carbohydrate.
18. Describe the mechanism of urine formation and its elimination.
19. Explain the Krebs's cycle and comment on the energetic of carbohydrate metabolism.
20. Describe the various factors influencing enzyme activity.
