



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

**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**THIRD SEMESTER – APRIL 2017**

**AZ 3508- ANIMAL PHYSIOLOGY & BIOCHEMISTRY**

Date: 02-05-2017  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**SECTION- A (10 × 2= 20)**

**Answer all questions:**

1. Define Metabolism.
2. What is Acidosis?
3. Explain Polysaccharides.
4. What is a Biological clock?
5. Define Gluconeogenesis
6. Krebs cycle - Explain.
7. What are essential and non-essential Aminoacids?
8. Explain Hemodynamics.
9. Write a note on Coenzymes.
10. What is Bowman's capsule?

**SECTION- B(4 × 10= 40)**

**Answer any Four of the following questions:**

11. Write notes on respiratory pigments.
12. Classify carbohydrates process of and explain their sources and significance.
13. Describe the Osmoregulation's.
14. Explain the functions of blood.
15. What is a myogenic hearts? Explain
16. Narrate the process of lipid metabolism.

**SECTION- C(2 × 20= 40)**

**Answer any two of the following questions:**

17. Explain urine formation and its elimination in mammals.
18. What are vitamins? Explain types of vitamins highlighting their deficiency disorders.
19. Explain in detail the carbohydrate metabolism.
20. Discuss in detail the properties of enzymes.

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