

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

THIRD SEMESTER – NOVEMBER 2016

AZ 3508 – ANIMAL PHYSIOLOGY & BIOCHEMISTRY

Date: 04-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

SECTION-A

(10 × 2 = 20)

Answer ALL questions:

1. What is essential amino acid?
2. State the functions of henle's loop?
3. Define hypertonic solution.
4. What is gluconeogenesis?
5. Comment on V_{max} .
6. Define BMR?
7. What is neurogenic heart?
8. Comment on circadian rhythm.
9. What is ETP?
10. What is allosteric effect?

SECTION-B

(4 × 10 = 40)

Answer any FOUR of the following questions:

11. Write short notes on transport of respiratory gases.
12. Give an account on haemodynamics and ECG.
13. Give a brief account on osmoregulation.
14. Write down the steps involved in Krebs cycle.
15. Explain in detail the properties of enzymes.
16. Describe the Gastrointestinal enzymes involved in Digestion.

SECTION-C

(2 × 20 = 40)

Answer any TWO of the following questions:

17. Write a brief notes on water Soluble Vitamins.
18. Write a brief notes on the Composition and Functions of Blood.
19. Briefly explain the steps in the glycolytic pathway.
20. Write a brief notes on Michaelis – Menton equation.
