

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – NOVEMBER 2023

PZO 3503 – ANIMAL PHYSIOLOGY

Date: 04-11-2023

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

PART A

Answer ALL the questions

(10 X 2= 20)

1. Distinguish nutrition from nutrients.
2. State the importance of enzyme amylase.
3. What is green gland?
4. What is non protein nitrogenous waste?
5. Comment on bowman's capsule.
6. Name any four respiratory organs in animals.
7. Mention the importance of FSH.
8. Comment on myofilaments.
9. Define cardiac cycle.
10. What is hibernation?

PART B

Answer any FOUR of the following

(4 X 10= 40)

11. Explain the mechanism of digestion in different organisms.
12. Enumerate the physiology of muscle contraction.
13. Discuss the neural and chemical regulation of heart rate and blood pressure.
14. Write short notes on menstrual cycle.
15. Give an account on the digestion and absorption of carbohydrates.
16. Explain the types and ecological importance of bioluminescence.

PART C

Answer any TWO of the following

(2 X 20 = 40)

17. Elaborate the structure of nephron and explain the physiology of urine formation.
18. Classify and explain the respiratory organs in various animals.
19. Describe in detail the mammalian endocrine hormones and its function.
20. Write an essay on the mechanism of osmoregulation.
