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D6BZL2101

Reg.No.....

Name:

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024

(Regular/Improvement/Supplementary)

ZOOLOGY

GZOL6B10T: PHYSIOLOGY AND ENDOCRINOLOGY

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.

(Ceiling 20 Marks)

1. What is the difference between starvation and fasting?
2. What is bicarbonate shift?
3. Comment on Osmoregulation in marine bony fish.
4. What is the function of adrenal gland?
5. Differentiate between hemodialysis and peritoneal dialysis.
6. What are respiratory pigments?
7. Write a short note on Isotonic contraction.
8. What is Neuroglia?
9. List out different types of nerve cells.
10. What is bioluminescence? Mention its functions.
11. Name the hormone produced by pineal gland. Give its functions.
12. What is diabetes insipidus? How is it caused?

SECTION B: Answer the following questions. Each carries *five* marks.

(Ceiling 30 Marks)

13. Describe the structure and functioning of ruminant stomach.
14. Compare and contrast the role of oestrogen and progesterone.
15. What are the physiological problems associated with respiration in diving mammals, new borns, and aged individuals?
16. Explain different mode of nitrogenous waste excretion.
17. Give an overview on the EM structure of Actin and Myosin.
18. Write a note on the propagation of action potential.
19. Give a short account on endocrine system of crustaceans.

SECTION C: Answer any *one* question. Each carries *ten* marks.

20. What are the different types of leucocytes in blood? Describe the process of blood transfusion. Mention the universal donor and universal acceptor concept.
21. Give an account on mechanism of hormone action. Add a note on hypothalamus-hypophysial interactions.

(1 x 10 = 10 Marks)