

CODE: **196708**  
NOVEMBER 2020

TIME: 3 Hrs  
MAX. MARKS: 50

**PART A**

(10 x 2=20)

Answer any **TEN** questions.

1. Differentiate between osmoconformers and osmoregulators
2. Define EEG
3. Write about electric organs in fishes
4. Define Pheromones
5. Double circulation
6. Cyclic respiration
7. Parathyroid hormone
8. G Protein
9. Metabolic water
10. Euryhaline
11. Chemotaxis
12. Echolocation

**PART B**

(2 x 5=10)

Answer any **TWO** questions.

13. Write note on the physiology of muscle contraction
14. Give short account on chemistry of bioluminescence and its functional significance
15. Give an account on efferent innervation of skeletal muscles
16. Brief note on lymph hearts of vertebrates
17. Write a short note on blood composition
18. Write the mechanism on filtration of blood by nephron
19. Give short note on feedback mechanism
20. Explain about the respiratory organs in animals.

**PART C**

(2x 10=20)

Answer any **TWO** questions.

21. Explain the mechanism of hormone action
22. Describe in detail about sound production and reception
23. Write an essay on chemical and electrical synaptic transmission
24. Explain in detail about vertebrate endocrine system
25. Discuss in detail about various types of circulatory system.