

D3BZL2302

Reg. No.....

Name: .....

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024**

**(Regular/Improvement/Supplementary)**

**ZOOLOGY: COMPLEMENTARY COURSE FOR BOTANY**

**GZOL3C03T: PHYSIOLOGY & ETHOLOGY**

**Time: 2 Hours**

**Maximum Marks: 60**

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

**(Ceiling 20 marks)**

1. What do you mean by insight learning?
2. Mention the role of respiratory centers in respiration.
3. Comment on tetanus.
4. Describe the role of Rennin.
5. Define imprinting.
6. What is Pseudobipolar neuron?
7. What are sensory neurons?
8. Define drive.
9. Give a brief account on the harmful effects of smoking.
10. What is muscle twitch?
11. Differentiate between stenohaline and euryhaline animals.
12. Write a short note on ureotelism.

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

**(Ceiling 30 marks)**

13. What are hyperosmotic and hyposmotic organisms?
14. Discuss the role of regulatory proteins and calcium in muscle contraction.
15. Describe trans-membrane transport with suitable examples.
16. Give brief account on environmental and genetic factors that influence behavior.
17. Write a note on the generation of action potential.
18. Describe the digestion of lipids.
19. Explain oxygen-dissociation curve. Describe the factors affecting the oxygen binding.

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

20. Describe the structure and conducting system of human heart.
21. Write an essay on social organization in mammals taking elephant as an example.

**(1 x 10 = 10 Marks)**