

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022
(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. Describe the mechanisms involved in the absorption of nutrients.
2. What is artificial ventilation?
3. List the conditions that cause the shift of Oxygen dissociation curve.
4. Write a short note on Nephritis.
5. Write a short note on Renal hypertension.
6. What are striated muscles?
7. Write short note on Isometric contraction
8. Explain Neurological basis of behaviour
9. Define latent learning.
10. What are the genetic factors that influence behaviour?
11. Write an account on advantages of being social.
12. Explain diapause.

SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 Marks)

13. Describe the fluid mosaic model of plasma membrane.
14. List and explain the roles of enzymes in digestion.
15. Explain the transport of carbon dioxide in a living system.
16. Write in detail about Osmoconformers.
17. Give an overview on the EM structure of myofibrils and myofilaments.
18. Explain co-operative behaviour in animals with example.
19. Write short essay on navigation and homing instinct.

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

20. What is agglutination? Describe the mechanisms involved in blood clotting.
21. Explain the generation and propagation of action potential in neurons.

(1 x 10 = 10 Marks)