

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021
(Regular/Improvement/Supplementary)
ZOOLOGY
FZOL3C07 - PHYSIOLOGY

Time: Three Hours

Maximum Weightage: 30

Part A: All questions can be answered. Each carries *two* weightage (Ceiling 6 weightage).

1. Comment on the lymph channels of the body.
2. Explain gastric motility and emptying.
3. What is microcirculation?
4. Comment on the physiology of mechanoreception?
5. Explain different types of reflexes.
6. What are Ischemic heart diseases? Briefly mention the causes.
7. Comment on the role of surfactant in alveolar expansion.

Part B: All questions can be answered. Each carries *four* weightage (Ceiling 12 weightage).

8. Describe briefly the photochemistry of vision.
9. Give an account on gas transport and oxygen dissociation curve.
10. Write notes on taste buds and the physiology of nerve impulse transmission to CNS.
11. Explain different types of memory.
12. What is ROS? Comment on the importance of antioxidant nutrients in the diet.
13. Briefly explain the structural organization of myogenic heart.
14. Discuss the composition and functions of lymph.

Part C: All questions can be answered. Each carries *six* weightage (Ceiling 12 weightage).

15. Explain the role of endocrine system in the regulation of mammalian body temperature.
16. Write brief notes on the brain stem components and their functions.
17. Give an account on the regulation of water balance and the mechanism of concentration of urine.
18. Describe the physiology of digestion and absorption of carbohydrates in the Gastro Intestinal (GI) tract.