

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023
(Regular/Improvement/Supplementary)
ZOOLOGY
FZOL3C07 - PHYSIOLOGY

Time: 3 Hours**Maximum Weightage: 30****Part A: Answer any *four* questions. Each carries *two* weightage.**

1. Discuss the role of pH and body temperature on oxygen dissociation curve.
2. Give the definition and significance of renal clearance.
3. Elaborate on chemical regulation of respiration.
4. Write notes on thermal receptors.
5. Briefly explain electrophysiology of vision.
6. Write down the principle and applications of ECG.
7. Explain the role of hypothalamus and thyroid in temperature regulation.

(4 × 2= 8 weightage)

Part B: Answer any *four* questions. Each carries *three* weightage.

8. Explain the diseased states of human brain.
9. Definition and types of memory.
10. Briefly discuss the location and structure of taste buds.
11. Describe the causes and consequences of Ischemic heart diseases.
12. Explain the physiology of olfaction.
13. Describe the composition and formation of Lymph.
14. Explain the role of gastrointestinal hormones (GIH) in gastrointestinal motility.

(4 × 3= 12 weightage)

Part C: Answer any *two* questions. Each carries *five* weightage.

15. Describe the ultrastructure of human kidney and physiology of urine formation.
16. Write an essay on the different functional areas of human brain.
17. Discuss the physiology of digestion and absorption of carbohydrates, proteins and fats.
18. Explain various pulmonary volumes, capacities and mechanism of transport of CO₂.

(2 × 5= 10 weightage)