

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024
(Regular/Improvement/Supplementary)

ZOOLOGY

FZOL3C07 - PHYSIOLOGY

Time: 3 Hours

Maximum Weightage: 30

Part A: Answer any *four* questions. Each carries *two* weightage.

1. What is meant by BMR? Comment on its significance.
2. Define the concept of renal clearance with examples.
3. What is golgi tendon organ?
4. What are thermal receptors?
5. Briefly describe the major respiratory organs in animals.
6. What is visual cycle?
7. What do you mean by lung capacity?

(4 × 2 = 8 weightage)

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

8. What is oxygen dissociation curve? Discuss the factors affecting it.
9. Discuss the physiological anatomy of cardiac muscle.
10. Explain the principle and applications of ECG.
11. Discuss the composition and functions of lymph.
12. Describe Parkinson's disease.
13. What is acclimatization? Explain the factors affecting body temperature.
14. Describe the physiology of olfaction with notes on the olfactory pathway.

(4 × 3 = 12 weightage)

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

15. Explain the organization and functions of brain stem.
16. Describe the process of urine formation.
17. Discuss the physiology of digestion of carbohydrates and lipids.
18. Explain the structure of eyeball and add a special note on retina.

(2 × 5 = 10 weightage)