

MSc DEGREE END SEMESTER EXAMINATION - OCTOBER 2025**SEMESTER 3 : ZOOLOGY****COURSE : 24P3ZOOT09 ; ANIMAL PHYSIOLOGY***(For Regular - 2024 Admission)*

Time : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

1. Comment on the determinants of peritubular capillary physical forces. (R)
2. What are androgens? Specify their functions. (R)
3. What are Sertoli cells? Mention their functions. (R)
4. Define 'haemopoiesis'. (U)
5. Explain the mode of nutrition in Parasites. (U)
6. Explain Nitrogen Narcosis. (U)
7. What is the role of muscles in the body? Name the different types. (R)
8. What is the role of cerebro-spinal fluid? (R)
9. Briefly explain the anatomy of cones. (U)
10. What is the cause of Graves' disease? (R)

(1 x 8 = 8)**PART B****Answer any 6 questions****Weights: 2**

11. Differentiate red and white muscles. (An)
12. Explain the renal mechanism for excreting a dilute urine. (U)
13. Briefly explain the factors affecting ventilation of lungs. (U)
14. Explain the endocrine functions of pancreatic islets. (U)
15. Explain the role of hypothalamus in regulating the body temperature. (U)
16. Explain the blood pressure and its regulation. (U)
17. Discuss in detail the rhodopsin-retinal visual cycle. (E)
18. Draw a neat sketch depicting the physiologic anatomy of the Neuromuscular Junction. (U)

(2 x 6 = 12)**PART C****Answer any 2 questions****Weights: 5**

19. Mention the impact of senescence on reproduction. (R, CO 3, CO 8)
20. Outline the various aspects relating to kidney transplantation. Add a note on dialysis and also the significance of artificial kidney. (U)
21. Explain the physiology of vision. (U)
22. Give a detailed account of the various endocrine glands in man with an emphasis on the master gland. (U)

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 3	Explain the structure of different types of hearts in animals, and examine the functioning of the respiratory and circulatory systems of human beings, together with their disease	U	19	5
CO 8	Analyze the chemical coordination system of the animal body and examine the Reproductive physiology with endocrinology of mammals	U	19	5

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;