

Reg. No .....

Name .....

23P313

**M. Sc. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023**

**SEMESTER 3 : ZOOLOGY**

**COURSE : 21P3ZOOT09 : ANIMAL PHYSIOLOGY**

*(For Regular - 2022 Admission and Supplementary - 2021 Admission)*

Duration : Three Hours

Max. Weights: 30

**PART A**

**Answer any 8 questions**

**Weight: 1**

1. Write short notes eating disorders. (U, CO 2)
2. What are second messengers? Write a note on their activity. (R, CO 7)
3. Distinguish between hibernation and aestivation. (An, CO 7)
4. Mention the significance of Lactation. (R, CO 7)
5. How does CO<sub>2</sub> diffuse through the placental membrane? (U, CO 3)
6. Explain the role of purkinje fibres in heart beat. (U, CO 3)
7. What are the different types of Neuroglial cells? (R, CO 5)
8. Comment on the role of sympathetic nervous system on Glomerular filtration. (R)
9. What are W cells? Note down its function. (R)
10. What is the role of muscles in the body? Name the different types. (R)

**(1 x 8 = 8)**

**PART B**

**Answer any 6 questions**

**Weights: 2**

11. What do you mean by 'Impedence matching' by Ossicular system? (R, CO 6)
12. Draw a neat sketch depicting the physiologic anatomy of the Neuromuscular Junction. (U)
13. Briefly explain the factors affecting ventilation of lungs. (U)
14. Explain the blood pressure and its regulation. (U, CO 3)
15. Comment on the disorders due to hyposecretion of thyroid hormones. (R, CO 7)
16. Comment on the physiological control of Tubular reabsorption and Secretion. (R)
17. Discuss the chemical nature of Adrenal hormones. (E, CO 7)
18. Explain the symptoms of menopause and Andropause? (A, CO 7)

**(2 x 6 = 12)**

**PART C**

**Answer any 2 questions**

**Weights: 5**

19. Explain the physiology of hearing. (U, CO 6)
20. Discuss the functions of Adrenocortical hormones. (E, CO 7)
21. Describe the physiology and hormonal influence in parturition and Lactation. Mention the significance of breastfeeding. (U, CO 7)
22. Write an account on anatomy of heart and cardiac cycle ? (U, CO 3)

**(5 x 2 = 10)**

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 2	Illustrate the mechanism of regulating food intake in human beings as well as problems related with overeating and resultant obesity	An	1	1
CO 3	Explain the structure of different types of hearts in animals, and examine the functioning of respiratory and circulatory systems of human beings together with their diseases	An	5, 6, 14, 22	9
CO 5	Illustrate the structure of sense organs and the transduction processes which convert changes in physical/chemical environment into nerve signals	U	7	1
CO 6	Examine the mechanism of thermoregulation in the human body	An	11, 19	7
CO 7	Analyze the chemical coordination system of the animal body and examine the reproductive physiology in relation to the endocrinology of mammals	E	2, 3, 4, 15, 17, 18, 20, 21	19

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