Reg. No	Name	17P3609

MSc DEGREE END SEMESTER EXAMINATION- OCTOBER-NOVEMBER 2017 SEMESTER 3: ZOOLOGY

COURSE: 16P3ZOOT09; ANIMAL PHYSIOLOGY

(For Regular - 2016 admission)

Time: Three Hours Max. Marks: 75

Section A Answer any 8 (2 marks each)

- 1. Distinguish between open and closed circulatory system.
- 2. Comment on the structure and functions of Haemoglobin.
- 3. Write a brief note on Peritoneal dialysis.
- 4. Mention the factors influencing Glomerular Capillary Colloid Osmotic Pressure.
- 5. Define the following terms: Neuromuscular Junction, End plate Potential, Motor unit.
- 6. Bipolar cells with two opposing actions are present in the retina. Comment on its relevance.
- 7. How are the olfactory signals transmitted to the brain?
- 8. What is the role of muscles in the body? Name the different types.
- 9. What is meant by Daily torpor?
- 10. Comment on any three aminoacid derivatives which have hormone actions in human body.
- 11. What are the functions of mineralocorticoids?
- 12. What is meant by puberty?

8 x 2 (16)

Section B Answer any 7 (5 marks each)

- 13. Describe neuronal and hormonal regulation of nutritional intake.
- 14. Write notes on the different types of hearts.
- 15. Briefly outline the factors affecting ventilation of lungs.
- 16. Draw a neat sketch depicting the physiologic anatomy of the Neuromuscular Junction.
- 17. Explain phototransduction with the help of suitable diagrams.
- 18. Describe the structure and function of Molluscan catch muscle.

- 19. Derive the equation that relates temperature and equilibrium constant.
- 20. Explain hypothalamic control of pituitary function.
- 21. Discuss the physiology of parturition.

7 x 5 (35)

Section C Answer any 2 (12 marks each)

- 22. Describe the process of respiration at 'High altitude' and during 'Deep sea diving'.
- 23. Explain the physiology of Urine formation in humans. What are the regulatory mechanisms involved?
- 24. Describe the physiology of hearing.
- 25. Explain the masculinizing effects of testosterone.

2 x 12 (24)