

Reg. No

Name

M. Sc DEGREE END SEMESTER EXAMINATION - OCTOBER 2019**SEMESTER 3 : ZOOLOGY****COURSE : 16P3ZOOT09 : ANIMAL PHYSIOLOGY***(For Regular - 2018 Admission and Supplementary - 2016/2017 Admissions)*

Time : Three Hours

Max. Marks: 75

Section A**Answer any 8 (2 marks each)**

1. Mention the role of leptin in adipogenesis.
2. Define 'haemopoiesis'.
3. Explain the significance of 'Compliance Diagram' of lungs.
4. Write a brief note on Peritoneal dialysis.
5. Define the term 'neuromodulators' with examples
6. In what way does the visual pathway of the rods differ from the cones?
7. What are the functions of 'Somatic sensory area I'?
8. What do you mean by Synchronous Flight muscle?
9. Comment on the role of skin in thermoregulation.
10. Comment on Ecdysone.
11. What are gonadotropins? Mention their functions
12. Mention the role of FSH.

(2 x 8 = 16)

Section B**Answer any 7 (5 marks each)**

13. Explain the role of hormones in food intake and obesity.
14. Elucidate the principle and significance of ECG.
15. Distinguish between Acute and Chronic Mountain sickness.
16. Differentiate between electrical and chemical transmission.
17. Write an explanatory note on the primary sensations of taste.
18. Illustrate the structure of a Myosin molecule. Label the various parts.
19. Explain the role of hypothalamus in regulating the body temperature.
20. Describe the structure and functions of thyroid hormones.
21. Comment on the physiological changes during pregnancy.
22. Describe the anatomy of 'Graffian Follicle'.

(5 x 7 = 35)

Section C**Answer any 2 (12 marks each)**

23. Discuss the mechanics of pulmonary ventilation. Briefly explain the process involved in inspiration and expiration.
24. Explain the physiology of Urine formation in humans. What are the regulatory mechanisms involved?
25. Give a detailed description of the physiology of taste.
26. Write an essay on the mode of action of different chemical classes of hormones.

(12 x 2 = 24)