

**Third Semester M.Sc. Degree Examination (CSS) - Zoology**

**ZY3CT11 Course XI – ANIMAL PHYSIOLOGY**

**Time: 3Hours**

**Total Weight: 30**

**Section I -Short answer type questions**

**Weight -1**

**Answer any 10 out of 12**

1. Mention the role of leptin in adipogenesis.
2. Distinguish between tetanus and tonus.
3. Define Arrhenius equilibrium.
4. Why Chaperones are important?
5. Comment on oxygen debt.
6. Write on the significance of Leydig cells.
7. Mention the role of Organ of Corti.?
8. What is EEG? Comment on its medical significance.
9. What are chemical messengers? Give four examples.
10. Write a brief note on estrous cycle.
11. Differentiate between neurogenic and myogenic heart.
12. Comment on artificial kidney.

**Section-II Short essay type questions**

**Weight -2**

**Answer any 5 out of 8**

13. Give a brief account on the physiology of digestion and absorption.
14. What is BMR? Explain its measurement.
15. How do hormones control the formation of Urine?
16. Explain the energetics of muscle contraction.

17. Describe the structure of a nephron.
18. What are the mechanisms of temperature regulation in Poikilotherms and homiotherms?
19. Discuss the effect of exercise on cardiovascular system in man.
20. Give an account on hormonal disorders in Man.

**Section III- Long essay type questions**

**Weight-5**

**Answer any 2 out of 3**

21. Explain the neurophysiology of vision?
22. Give an account on the synthesis, control of secretion and physiological action of thyroid hormone.
23. Describe the excitatory and inhibitory pathway of neurotransmission.

