QP CODE: 25047319

25047319

Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc ZOOLOGY

Core Course - ZL010301 - ANIMAL PHYSIOLOGY

2019 ADMISSION ONWARDS

1B625EAA

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Mention the short term regulation of food intake.
2. What are the functions of circulatory system in animals?
3. Comment on muscles of inspiration in humans.
4. Briefly explain respiration during fetal life.
5. Explain Light Modality.
6. What are Tactile receptors?
7. Differentiate between Merkel cells and Meissner corpuscles.
8. Mention the role of ADH in concentrating urine.
9. Distinguish between T3 and T4.
10. Comment on Corpus albicans.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Compare the physiology of digestion and absorption Vertebrates.
12. What is Leptin, mention its role?
13. Give an account on ECG and its significance.
14. Describe briefly the neuroanatomy of the central nervous system.
15. Explain the mechanism of muscle contraction and relaxation.

16. Briefly explain the conditions which cause fever in the body.

17. Cholesterol is the parent compound of all steroid hormones. Justify the statement.

18. Describe the structure and function of placenta.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain cardiac cycle with the help of conducting system of myogenic heart .

20. Describe neurotransmitters and neuromodulators. Explain in detail the neural control of muscle tone and posture.

21. Describe various osmoregulatory mechnisms in different organisms.

22. Explain the stages of ovum and follicle development and add note on its hormonal control.

(2×5=10 weightage)