QP CODE: 24044699

24044699

Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, OCTOBER 2024

Third Semester

M.Sc ZOOLOGY

CORE - ZL010301 - ANIMAL PHYSIOLOGY

2019 ADMISSION ONWARDS

162EF334

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What are the major causes of obesity?
2. Explain the terms 'Pressure Diuresis' and 'Pressure Natriuresis'. Comment on their significance in cardiovascular system.
3. Write a short note on Avian respiration.
4. What is decompression sickness?
5. What is a Synapse? What are its types?
6. What is summation? What are its types?
7. Comment on Red muscles.
8. What is dialysis?
9. What makes a chemical a hormone?
10. Add notes on the significance of testosterone.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain holozoic mode of digestion and absorption in free living fresh water Protists with examples.
12. Describe the interplay between orexigenic and anorexic factors in regulating food intake.

13. Explain the circulation of hemolymph in insects.

14. Explain Light and Sound Modality in brief.

15. With a neat diagram explain the structure of vertebrate eye.

16. Which are the osmoregulatory mechanisms that help salmon fish to survive in both marine and freshwater?

17. If a person's diet is low in iodine it affects his thyroxine production. Justify the statement.

18. Add notes on the histology of human testis.

(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. What are chemoreceptors? Explain its types.Also detail the mechanism of reception.

21. Explain role of hypothalamus in regulation of body temperature.

22. Explain the structure of mammary gland and discuss the hormonal control of lactation.

(2×5=10 weightage)