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Reg. No.....

Name.....

# M.Sc. DEGREE (C.S.S.) EXAMINATION, JULY 2022

**Third Semester**

Faculty of Science

Branch VIII—Zoology

ZY 3C T11—ANIMAL PHYSIOLOGY

(2012—2018 Admissions—Supplementary/Mercy Chance)

Time : Three Hours

Maximum Weight : 30

## Section I (Short Answer Type Questions)

*Answer any* **ten** *questions.*
*Each question carries a weight of* 1.

1. What is action potential ?
2. What is leptin and its role in human physiology ?
3. What is anaerobic respiration ? Give an example.
4. Why is symbiotic digestion ?
5. What is lipogenesis ?
6. What is testosterone and its function ?
7. What is placenta ?
8. What is senescence ?
9. What is catch muscle ?
10. What are the blood buffers and its role ?
11. What is neuromuscular junction ?
12. What is BMR ?

(10 × 1 = 10 weight)

## Section II (Short Essay Type Questions)

*Answer any* **five** *questions.*
*Each question carries a weight of* 2.

13. Explain thermoregulatory mechanisms in animals.
14. Briefly explain the mechanism of food intake in different animals.

Turn over

15. Write down the principle of ECG. Add a note on its significance.
16. Describe resting membrane potential and the factors affecting it.
17. Explain the electro-chemical events during muscle contraction.
18. Briefly explain the process of dialysis.
19. What are digestive hormones and their roles ?
20. Comment on Human congenital heart diseases.

(5 × 2 = 10 weight)

## Section III (Long Essay Type Questions)

*Answer any* **two** *questions.*
*Each question carries a weight of* 5.

21. Write an essay on the mechanism respiration in vertebrates.
22. Describe the neuro-endocrine regulation of hormonal action.
23. Explain the anatomy and histology of adult testis.

(2 × 5 = 10 weight)