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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, FEBRUARY 2025

Third Semester

Faculty of Science

Branch VIII—Zoology

ZY 3CT 11—ANIMAL PHYSIOLOGY

(2018 Admissions—Supplementary/2017, 2016 and 2015 Admissions—Mercy Chance)

Time : Three Hours

Maximum Weight : 30

Section I (Short Answer Type Questions)

Answer any **ten** *out of twelve.*
Weight 1 *each.*

1. Aestivation and hibernation.
2. Human congenital heart diseases.
3. Circulatory arrest.
4. Neurotransmitters.
5. Analgesia.
6. Synthetic hormones.
7. Artificial kidney.
8. BMR.
9. Pace maker.
10. Neurogenic and myogenic heart.
11. Mechanoreceptors.
12. Acclimatization.

(10 × 1 = 10)

Turn over

Section II (Short Essay Type Questions)

Answer any **five** *out of eight.*
Weight 2 *each.*

13. Briefly explain the causes and consequences of obesity.
14. Explain the hormonal regulation of urine formation.
15. Explain the organization and properties of neuromuscular junction.
16. Briefly explain the neuro-endocrine regulation of hormone action.
17. Briefly explain the principle and significance of ECG.
18. Explain the mechanism of muscle contraction and relaxation.
19. Describe the feedback loop between the hypothalamus pituitary gland and thyroid gland.
20. Compare and contrast skeletal and cardiac muscles.

(5 × 2 = 10)

Section III (Long Essay Type Questions)

Answer any **two** *out of three.*
Weight 5 *each.*

21. Explain menstrual cycle and its hormonal control.
22. Explain the mechanisms of hormone action.
23. Discuss the different endocrine disorders associated with the pituitary gland and their clinical manifestations.

(2 × 5 = 10)