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Name.....

Reg. No.....

**SIXTH SEMESTER U.G. (CBCSS—UG) DEGREE EXAMINATION
MARCH 2024**

Zoology

ZOL 6B 10T—PHYSIOLOGY AND ENDOCRINOLOGY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

I. Short answer questions. Each question carries 2 marks :

- 1 What is Bohr effect ?
- 2 Mention any two important physiological functions of Calcium.
- 3 What is muscle twitch ?
- 4 Write notes on neuromuscular junction.
- 5 Explain nephritis.
- 6 What is tachycardia ?
- 7 Give any two functions of testosterone.
- 8 Distinguish between neurogenic and myogenic heart.
- 9 What is ECG ?
- 10 Differentiate chemical synapse from electrical synapse.
- 11 What is the role of CCK-PZ ?
- 12 What is rigor mortis ?

(Ceiling 20 marks)

Section B

II. Paragraph questions. Each question carries 5 marks :

- 13 What is obesity? Write on the causes and consequences of obesity
- 14 Explain the structure and properties of hemoglobin.
- 15 What is the sliding filament theory of muscle contraction?

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- 16 Explain synaptic transmission of nerve impulses.
- 17 Describe the mechanism of action of steroid hormones.
- 18 Explain Cori cycle.
- 19 Give a brief note on coagulation of blood.

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Section C

III. Essay questions. Answer any *one* question :

- 20 Describe the EM structure of myofibrils and myofilaments.
- 21 Explain the mechanism of transport of respiratory gases.

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