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(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2024

(CBCSS)

Zoology

ZOL 2C 04—PHYSIOLOGY

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

I. Answer any *four* of the following. Short Answer Type Questions. Weightage 2 :

- 1 Write the control of Gastrin- Releasing Peptide of Gastric Emptying.
- 2 Write the functions of the juxtaglomerular apparatus.
- 3 Define the Mechanism of breathing.
- 4 Define the white matter of the brain.
- 5 What is the photochemistry of vision ?
- 6 Write a short note on thermoreceptor pathway.
- 7 Write a short note on hypothermia.

(4 × 2 = 8 weightage)

II. Answer any *four* of the following. Short Essay Type Questions. Weightage 3 :

- 8 Write the structure of the kidney.
- 9 What are the parts of the respiratory system?
- 10 Write the functional areas and functions of the cerebral cortex.
- 11 Summarize the structure of the eyeball.
- 12 Write the mechanism and function of mechanoreceptors.
- 13 Write an overview of cardiac cycle.
- 14 Summarize the thyroid hormone control of thermogenesis and energy balance.

(4 × 3 = 12 weightage)

III. Answer any *two* of the following. Long Essay Type Questions. Weightage 5 :

- 15 Describe in detail in Energy Balance of Body.
- 16 Describe the mechanism to protecting the brain.
- 17 Describe pain receptors and their stimulation.
- 18 Write a brief account of lymph formation and composition.

(2 × 5 = 10)