

**SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, APRIL 2023**

(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 significance of BMR.
- 2 Define renal clearance.
- 3 Write a short note on the respiratory centre of the brain.
- 4 Write a short note on blood-brain barrier.
- 5 Write a short note on nerve supply.
- 6 What is normal blood pressure ?
- 7 Write a short note on lymphatic vessels.

(4 × 2 = 8 weightage)

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

- 8 Explain the mechanisms of urine formation.
- 9 Write the chemical regulation of breathing.
- 10 Write an overview of the brainstem.
- 11 What are layers present in the retina.
- 12 Write the structure and function of cardiac muscle.
- 13 Write an account on interstitial fluid.
- 14 Write a detailed account on acclimatization.

(4 × 3 = 12 weightage)

Turn over

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

- 15 Describe the mechanism of pulmonary ventilation.
- 16 What is Alzheimer's disease and its risk factors, symptoms, stages and prevention.
- 17 Describe in detail of physiology of taste.
- 18 Write a brief account of olfactory receptor.

(2 × 5 = 10 weightage)