

C 4773

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2021**

(CBCSS)

Zoology

ZOL 2C 04—PHYSIOLOGY

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

**General Instructions**

1. *In cases where choices are provided, students can attend **all** questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

**Section A**I. Answer any *four* questions. Each question carries 2 weightage :

- 1 Comment on the composition of lymph.
- 2 Briefly explain acclimatization.
- 3 What is reticular formation ?
- 4 What are semilunar valves ?
- 5 Comment on Brodman map.
- 6 What is visual cycle ?
- 7 Briefly write on glomerular filtration.

(4 × 2 = 8 weightage)

**Section B**II. Answer any *four* questions. Each question carries 3 weightage :

- 8 Write an account on the various types of movements of gastrointestinal tract.
- 9 Explain the physiological anatomy of cardiac muscle.
- 10 Enumerate the structure and functions of juxtaglomerular apparatus.

**Turn over**

- 11 Describe the neural organization of retina.
- 12 Explain the structure of spinal cord.
- 13 Elaborate on limbic system and its functions.
- 14 Comment on pulmonary volume and capacities.

(4 × 3 = 12 weightage)

### Section C

III. Answer any *two* questions. Each question carries 5 weightage :

- 15 Explain the organization and functions of brain stem.
- 16 Describe the mechanisms of concentration of urine.
- 17 Enumerate the neural and chemical regulation of respiration.
- 18 Explain taste receptors and the physiology of taste.

(2 × 5 = 10 weightage)