

C 23383

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)  
EXAMINATION, APRIL 2022**

(CBCSS)

Zoology

ZOL 2C 04—PHYSIOLOGY

(2019 Admission onwards)

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. The instruction if any, to attend a minimum number of questions from each sub section / sub part / sub division may be ignored.
4. There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.

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

- 1 Vital capacity.
- 2 Mechanism of sweat secretion.
- 3 Types of memory.
- 4 Peristalsis.
- 5 Pain receptor.
- 6 SA node.
- 7 Nephron.

(4 × 2 = 8 weightage)

II. Answer any *four* of the following. Weightage 3 :

- 8 Functions of amygdala.
- 9 Fluid system of the eye.

**Turn over**

- 10 Composition and formation of lymph.
- 11 Oxygen-haemoglobin dissociation curve.
- 12 Stimulation of mechanoreceptors.
- 13 Composition of glomerular filtrate.
- 14 Anatomical functional areas of cerebellum.

III. Answer any *two* of the following. Weightage 5 :

(4 × 3 = 12)

- 15 Explain the counter-current mechanism in urine formation.
- 16 Describe temperature regulating mechanisms. Add a note on role of hypothalamus in temperature regulation.
- 17 Briefly explain the neural and hormonal regulation of gastro-intestinal motility.
- 18 Write an essay on cardiac cycle and its regulation.

(2 × 5 = 10)