

C 83088

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.A./M.Sc./M.Com. DEGREE EXAMINATION
JUNE 2020**

(CBCSS)

Zoology

ZOL2C04—PHYSIOLOGY

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

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

- 1 Write on the physiology of micturition.
- 2 Briefly explain BMR and its significance.
- 3 What is Hering-Breuer reflex ?
- 4 Write on blood brain barrier and its functions.
- 5 Distinguish between monosynaptic and polysynaptic reflexes.
- 6 Comment on A-V node and its significance.
- 7 What are taste buds ?

(4 × 2 = 8 weightage)

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

- 8 Explain the physiological anatomy of coronary artery and regulation of coronary blood flow.
- 9 Describe the functions of lymph and lymphatic system.
- 10 Elaborate on the thermoregulatory mechanisms in humans.
- 11 Explain the formation and functions of cerebrospinal fluid.
- 12 Comment on the hormonal and neural regulation of gastrointestinal motility.
- 13 Explain the structure of alveoli and mechanism of alveolar ventilation.
- 14 Explain the structure of olfactory receptors and the physiology of olfaction.

(4 × 3 = 12 weightage)

Turn over

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

15 Explain the structure and functional areas of the cerebral cortex.

16 Describe the mechanism of urine formation.

17 What is oxygen dissociation curve ? Explain the various factors influencing the binding of oxygen to haemoglobin.

18 Elaborate on the physiology of image formation on human eye.

(2 × 5 = 10 weightage)