

21P214

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Name: .....

Reg.No: .....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19P ZOL2 C04 - PHYSIOLOGY**

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**

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

1. Describe the role of hypothalamus in thermoregulation.
2. Describe pulmonary capacities.
3. Explain the fluid systems in eye.
4. Explain the receptors of taste buds in humans.
5. Explain the process of stimulation of olfactory cells.
6. Explain chemical regulation of heart.
7. Explain the organisation and function of basal nuclei.

**(4 × 2 = 8 Weightage)**

**Part-B**

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

8. Explain with diagram the lymph channels of body. Mention the functions of lymphatic system.
9. Describe the anatomy and function of mammalian kidney.
10. Describe regulation of water balance by mammalian kidney.
11. Explain reflex arc.
12. Explain mechano receptors and their stimulation.
13. Explain coronary blood flow and its regulation.
14. Describe the concept of memory and explain its types.

**(4 × 3 = 12 Weightage)**

### Part-C

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

15. Explain intestinal motility and defecation. Mention the role of hormones and neurotransmitters in intestinal motility.
16. Give a detailed account on neural and chemical control of respiration.
17. Give a detailed account on myogenic heart.
18. Explain the structure of brain stem, cerebellum and diencephalon and its functions.

**(2 × 5 = 10 Weightage)**

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