

C 63101

(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2019

(CUCSS)

Zoology

ZO 2CT 04—PHYSIOLOGY

(2016 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

Answer all questions.

Each question carries 1 weightage.

1. What do you mean by inspiratory reserve volume ?
2. What is deglutition ?
3. What is Brodman map ?
4. What are antioxidants ?
5. Discuss the causes of Obesity.
6. What are Green glands ?
7. Write notes on senile dementia.
8. What is reflex arc ?
9. Comment on physiological calorie value of lipids.
10. What do you know about surfactants ? Mention their function.
11. What is cardiac cycle ?
12. Write notes on the functions of somatosensory cortex.
13. Distinguish between short term and long term memory.
14. Write down the major functions of brain stem.

Part B

Answer any seven of the following.

Each question carries 2 weightage.

15. Comment on neuroendocrine control of thermoregulation.
16. Explain coronary blood flow and its control.
17. Describe the structure of eye ball.
18. Write an account on physiology of olfaction.

Turn over

19. Explain the regulation of heart function.
20. Comment on the factors affecting binding of oxygen to haemoglobin.
21. Explain the lymph channels of human body.
22. Write an account on pain receptors of vertebrates.
23. Comment on renal regulation of acid base balance.
24. Describe the mechanisms of pulmonary ventilation.

(7 × 2 = 14 weightage)

Part C

*Answer any two of the following.
Each question carries 4 weightage.*

25. Explain the structure of nephron and juxtaglomerular apparatus. Discuss their role in excretion.
26. Give an account on image formation in the vertebrate eye.
27. Describe the physiology and anatomy of cardiac muscle.
28. Give an account on Cerebral cortex and its functional areas.

(2 × 4 = 8 weightage)