

18P218

(Pages: 2)

Name:.....

Reg. No:.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2019

(Regular/Supplementary/Improvement)

(CUCSS - PG)

CC17P ZO2 C04 - PHYSIOLOGY

(Zoology)

(2017 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

I. Answer *all* questions:

1. What is meant by physiological fuel value of food stuffs?
2. Describe the histology of respiratory membrane.
3. What is Parkinsons disease?
4. Explain Sinu-atrial node.
5. Enumerate the functions of CSF.
6. Mention the role of 2, 3 DPG in oxygen transport.
7. Describe the structure of a taste bud.
8. Comment on the responses of the body when exposed to extremes of hot.
9. Write a note on functions of lymph.
10. Write an account on Brodman map.
11. Explain Henle's loop as counter current multiplier system?
12. Mention the pressures that promote and oppose glomerular filtration.
13. Comment of short term memory.
14. Write notes on the stimulation of nociceptors.

(14 x 1 = 14 Weightage)

II. Answer any *seven* of the following.

15. Write a brief account on reflex action.
16. Explain the formation and flow of lymph.
17. Describe the respiratory volumes and capacities.
18. Explain behavioural and hormonal regulation of body temperature.
19. Define Basal Metabolic Rate. Write on the factors influencing it.
20. How do meninges and BBB protect the brain?
21. Describe the routes and mechanisms of renal tubular reabsorption and secretion.
22. Write notes on JG apparatus and its function.
23. Describe the structure and functions of brain stem.
24. Describe the physiology of colour vision.

(7 x 2 = 14 Weightage)

III. Answer any *two* questions.

25. Write an essay on the functional areas of cerebral cortex and their functions.

26. Discuss the coronary circulation.

27. Explain the physiology of olfaction.

28. Explain renal regulation of acid-base balance and electrolyte balance.

(2 x 4 = 8 Weightage)
