

17P220

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Name:.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, MAY 2018

(CUCSS - PG)

(Zoology)

CC17P ZO2 C04 - PHYSIOLOGY

(2017 Admissions: Regular)

Time: Three Hours

Maximum: 36 Weightage

I. Answer *all* questions. Each question carries 1 weightage.

1. Name any four antioxidant rich food.
2. What is juxtaglomerular apparatus?
3. What are green glands?
4. What is dead space?
5. What is Brodman map?
6. What is Micturition reflex?
7. Mention the fluid systems of eye.
8. How smell signals transmits to Central nervous system?
9. Name any four hormones that control gastrointestinal motility.
10. Mention the causes of ischemic heart disease.
11. What is the role of hypothalamus in thermoregulation?
12. Write the functions of lymph.
13. What is reflex arc?
14. How diphosphoglyceric acid level affect respiration?

(14 x 1 = 14 Weightage)

II. Answer any *seven* questions. Each question carries 2 weightage.

15. Explain BMR and its significance.
16. Briefly explain the functional anatomy of Mammalian kidney.
17. What are surfactants? Mention its role on respiration.
18. Give an account on organization of brain stem.
19. Write a brief account on taste buds.
20. Explain the image formation in retina.
21. Give a short account on pain receptors and its stimulation.
22. Explain "Heart as a pump".
23. Explain coronary blood flow and its regulation.
24. What is blood brain barrier? Mention its function

(7 x 2 = 14 Weightage)

III. Answer any *two* questions. Each question carries 4 weightage.

25. Explain the regulation of water balance and counter current system.

26. Write an essay on neural and chemical control of respiration.

27. Give an account on diseased states of brain.

28. Explain the electrophysiology of vision.

(2 x 4 = 8 Weightage)
