

15P214

(Pages: 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JULY 2016**

(CUCSS - PG)

(Zoology)

**CC 15P ZO2 C04 - PHYSIOLOGY**

(2015 Admission)

Time: Three Hours

Maximum: 36 Weightage

**I. Answer *all* questions**

1. What is Golgi tendon organ? What is its function?
2. Give the composition of normal urine.
3. What is functional residual capacity?
4. Distinguish between reticular nuclei and vestibular nuclei.
5. What is the role of salivary gland in digestion?
6. Write briefly on mechanoreceptors.
7. What is glomerular filtration?
8. Give short note on book lungs.
9. Write the structure of taste buds.
10. What is ischemic heart disease? Give an example.
11. What are the distinctive features of cardiac muscle?
12. Give a brief note on Alzheimer's disease.
13. Describe thermal receptors.
14. Comment on photoreceptors.

**(14 x 1 = 14 weightage)**

**II. Answer any *seven* questions**

15. How proteins and lipids are digested?
16. Briefly explain the physiology of micturition
17. Discuss the factors affecting the binding of oxygen to haemoglobin.
18. Explain the role of countercurrent system in concentrating urine.
19. Give an account of epilepsy.
20. Describe the different layers of retina of eye.
21. Explain the physiology of taste.
22. Discuss the role of thyroid gland and adrenal gland in thermoregulation.
23. Write notes on the functions of cerebellum.
24. Describe the physiological anatomy of coronary blood flow.

**(7 x 2 = 14 weightage)**

III. Answer any *two* questions

25. Describe the organization of respiratory passage and lungs. Add a note on the mechanism of pulmonary ventilation
26. Provide the details of the composition and functions of lymph
27. Give an account of the absorption of nutrients from the gastro intestinal tract
28. Write an essay on the association areas of cerebral cortex

(2 x 4 = 8 weightage)

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