

16P214

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Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, MAY-2017

(Regular/Supplementary/Improvement)

(CUCSS - PG)

CC 15P ZO2 C04 – PHYSIOLOGY

(Zoology)

(2015 Admission Onwards)

Time: Three Hours

Maximum: 36 Weightage

I. Answer *all* questions

1. Write the role of liver in digestion.
2. What is deglutition?
3. Comment on thermal receptors
4. What is tidal volume?
5. Enlist the different types of excretory organs of animals.
6. What are the functions of brain stem?
7. Write short note on Depression.
8. Comment on olfactory receptors.
9. Write notes on lymphatic capillaries.
10. Comment on acclimatization.
11. Write notes on mechanoreceptors.
12. Explain defecation.
13. Differentiate between vital capacity and inspiratory capacity.
14. Explain reflex arc. **(14 x 1 = 14 Weightage)**

II. Answer any *seven* questions.

15. Give an account of the antioxidant nutrients.
16. Role of hormones and neurotransmitters in the control of gastrointestinal motility.
17. With suitable diagram describe the structure of nephron.
18. Explain the components and functions of basal ganglia.
19. Briefly explain the neural and chemical regulation of respiration.
20. Explain the physiology of taste.
21. Describe the structure and functions of limbic system.
22. Specify the composition of lymph.
23. Discuss the role of hypothalamus in thermoregulation.
24. Give a brief note on the various types of memory. **(7 x 2 = 14 Weightage)**

III. Answer any *two* questions

25. Explain the renal regulation of water and acid base balance.
26. Outline cardiac cycle and explain principle and applications of ECG
27. Explain the mechanism of respiratory gas transport and gas exchange.
28. Describe the structure of eye. **(2 x 4 = 8 Weightage)**
