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(Pages: 2)

Name:

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019

(Regular/Supplementary/Improvement)

(CUCBCSS – UG)

CC15U ZO6 B11 - PHYSIOLOGY AND ENDOCRINOLOGY

Zoology – Core Course
(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

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

1. Name the leucocyte produced in allergic response.
2. Expand the term ESR.
3. Name the four chambers of ruminant stomach.
4. What is neurilemma?
5. Which blood group is known as universal recipient?
6. What is ADH?
7. Name any four abnormal constituents of urine.
8. Write any two examples for neurotransmitter.
9. Give the name of copper containing respiratory pigment.
10. Write the name of any two gastro intestinal hormones.

(10 x 1 = 10 Marks)

II. Answer any *ten* questions. Each question carries 2 marks.

11. Short note on neuromuscular junction.
12. What is anorexia?
13. What is uricotelism?
14. Comment on ECG.
15. What is rigor mortis?
16. Distinguish between tachycardia and bradycardia.
17. Briefly describe oxytocin.
18. What is SIDS?
19. Write any four significance of dietary fibre.
20. What is sinus gland?
21. Shortly describe ACTH.
22. Comment on the functions of electric organs.

(10 x 2 = 20 Marks)

III. Answer any *five* questions. Each question carries 6 marks.

23. Brief account of placental hormones.
24. Enumerate the physiological problems in diving mammals.
25. Write an account on physiology of light production.
26. Describe the composition and functions of blood plasma.
27. Discuss the endocrine pancreas.
28. What is obesity? Explain its causes and consequences.
29. Explain the osmoregulation in marine animals.
30. Short note on neuroendocrine organs in insects.

(5 x 6 = 30 Marks)

IV. Write essays on any *two* questions. Each question carries 10 marks.

31. Write an account on the mechanism of oxygen transport. Add a note on neurophysiological control of respiration.
32. With suitable diagrams explain the gross and fine structure of human kidney.
33. Write an essay on the mechanism of muscle contraction.
34. Explain the mechanism of hormone action in detail.

(2 x 10 = 20 Marks)
