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Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, January 2023

First Degree Programme under CBCSS

Zoology

Complementary Course for Botany, Home Science and Bio-Chemistry

ZO 1331.1 : FUNCTIONAL ZOOLOGY

(2013-2014 Admission)

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever necessary

1. Answer all questions in one or two sentences. Each question carries 1 mark.
1. Define asphyxia.
2. What is myocardial infarction?
3. What is Oxygen debt?
4. What is ECG?
5. Define uremia.
6. What is acromegaly?
7. What is MALT?
8. Define summation.

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9. What is scurvy?
10. What are anticoagulants?

(10 × 1 = 10 Marks)

II. Answer any **eight** of the following. Each question carries **2** marks. Answer no to exceed one paragraph each.

11. Write short notes on neurotransmitters.
12. Distinguish between autotrophy and heterotrophy.
13. What is all or none law?
14. Distinguish between Diabetes mellitus and Diabetes insipidus.
15. Write short notes on haemoglobin.
16. Distinguish between tonus and tetanus.
17. What is carbon monoxide poisoning?
18. Write short notes on hypersensitivity.
19. What is saltatory propagation?
20. Write short notes on dialysis.
21. What is rigor mortis?
22. Write short notes on immunization.

(8 × 2 = 16 Marks)

III. Answer any **six** of the following. Each question carries **4** marks. Each answer should not to exceed **120** words.

23. Explain carbon dioxide transport.
24. Write notes on neural control of respiration.
25. Describe the role of hormones in reproductive cycle.
26. Explain briefly the structure of immunoglobulin.
27. Describe the structure of synapse.
28. Write notes on deficiency disorders of vitamins.
29. Explain briefly the blood clotting pathways.
30. Write notes on hormonal control of renal function.
31. Explain the structure of nephron.

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following. Each question carries **15** marks.

32. Explain the structure of muscle, Add notes on the mechanism of contraction.
33. Describe the composition of blood and functions of its components.
34. Explain types of immunity.
35. Write an essay on endocrine glands and hormones.

(2 × 15 = 30 Marks)