

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, October 2019

First Degree Programme under CBCSS

Complementary Course for Botany, Home Science and Bio-Chemistry

ZO 1331.1 : FUNCTIONAL ZOOLOGY

(2015 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

Draw diagrams wherever necessary.

- I. Answer all questions in one or two sentences. Each question carries 1 mark.
1. What is scurvy?
2. Define dyspnoea.
3. What is arteriosclerosis?
4. Define acidosis.
5. What is EEG?
6. Define twitch.
7. Comment on haptan.
8. What is acromegaly?

9. What are interferons?

10. Define paratope.

(10 × 1 = 10 Marks)

II. Answer **any eight** of the following. Each question carries **2** marks. Answer not to exceed **One** paragraph each.

11. Write short notes on principle of blood grouping.

12. What is carbon monoxide poisoning?

13. Write notes on the etiology of AIDS.

14. Distinguish between neurogenic and myogenic hearts.

15. Write short notes on goitre.

16. What is all or none law?

17. Comment on T cells.

18. Write briefly the composition of urine.

19. Mention any two vaccines.

20. What is saltatory propagation?

21. Write short notes on protein malnutrition disorders.

22. Give an account on haemoglobin.

(8 × 2 = 16 Marks)

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

23. Describe briefly the gas transport mechanism.
24. Explain briefly the physiological role and deficiency disorders of fat-soluble vitamins.
25. Describe the structure of immunoglobulin.
26. Write notes on anticoagulants.
27. What is synapse? Add notes on synaptic transmission of impulse.
28. Write notes on types of muscles.
29. Describe briefly hormonal control mechanism of renal function.
30. Write note on complement pathways.
31. Explain briefly the neural control mechanism in respiration.

(6 × 4 = 24 Marks)

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

32. Explain the ultrastructure of a striated muscle and mechanism of muscle contraction.
33. Write an essay on endocrine glands and hormones.
34. Describe the organs of immune system.
35. Mention in detail the structure of nephron and formation of urine.

(2 × 15 = 30 Marks)