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Reg. No. : .....

Name : .....

Third Semester B.Sc. Degree Examination, March 2022

First Degree Programme under CBCSS

Zoology

Complementary Course for Botany, Home Science and Bio-Chemistry

ZO 1331.1 : FUNCTIONAL ZOOLOGY

(2019 & 2020 Admission)

Time : 3 Hours Max. Marks : 80

I. Answer **all** the questions in a word or **one** or **two** sentences. Each question carries **1** mark.

1. Autotrophy
2. Blood groups
3. Pacemaker
4. EEG
5. Alkaptoneuria
6. Sickle cell anaemia
7. Dwarfism
8. Myogenic heart

P.T.O.

9. Thymus

10. Arteriosclerosis.

(10 × 1 = 10 Marks)

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

11. Describe Resting Potential

12. Describe Synapse

13. Refractory period

14. Tetanus

15. Goitre

16. Gives notes on action potential

17. Cretinism

18. Fatigue

19. Bone marrow

20. Antigens

21. Uremia

22. Vaccination

23. Heart beat

24. Summation

25. Anticoagulants

26. ECG.

(8 × 2 = 16 Marks)

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

27. Briefly mention the physiological role of water soluble Vitamins and its disorders.
28. Describe the respiratory pigments.
29. Explain Carbon monoxide poisoning.
30. Explain the transport of Oxygen with illustrations.
31. Differentiate between Tetanus and Tonus.
32. Explain Hypersensitivity and Allergy.
33. Explain the mechanism of Muscle contraction.
34. Give notes on Haemophilia.
35. Differentiate between Hypocapnia and Hypercapnia.
36. Describe the composition of Urine.
37. Differentiate between Angiogram and Angioplasty.
38. Name some Neurotransmitters.

(6 × 4 = 24 Marks)

IV. Answer **any two** of the following. Each question carries **15** marks. Answer a long **Essay** type.

39. Write an essay on the different types of Syndromes.
40. Describe the disorders of blood clotting.
41. Write an essay on countercurrent mechanism.
42. Explain multiple alleles with reference to ABO system and its inheritance.
43. Draw a neat sketch of Nervous system.
44. With illustrations, describe structure and functions of immunoglobulins.

(2 × 15 = 30 Marks)