

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. Alkaptonuria
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)