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P – 3873

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, January 2023

First Degree Programme under CBCSS

Complementary Course for Zoology, Botany, Home Science and
Bio-Chemistry

ZO 1331.1 : FUNCTIONAL ZOOLOGY

(2019 Admission onwards)

Time : 3 Hours

Max. Marks : 80

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

1. Heterotrophy
2. Asphyxia
3. Neurogenic heart
4. AIDS
5. Alkaptonuria
6. Sickle cell anaemia
7. ECG

P.T.O.

8. Lymphocytes
9. Gigantism
10. Atherosclerosis

(10 × 1 = 10 Marks)

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

11. All or none law.
12. Explain muscle twitch
13. Describe Action potential
14. Tonus
15. Describe rigor mortis
16. Cretinism
17. Explain Refractory period
18. Spleen
19. Protineuria
20. Antibodies
21. Dialysis
22. Immunization
23. Blood pressure
24. Hypoxia
25. Humoral immunity
26. Endocrine glands

(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 malnutrition disorders.
28. Explain the transport of Carbon dioxide with illustrations.
29. Describe the composition of Blood.
30. Differentiate between Diabetes mellitus and diabetes insipidus.
31. Describe Acromegaly.
32. Explain the physiological effects of smoking.
33. Differentiate between Apnoea and Dyspnoea.
34. Give notes on Haemophilia.
35. Differentiate between Myocardial infarction and Hypertension.
36. Describe Saltatory transmissions.
37. Describe Urine formation.
38. Differentiate between Acidosis and Alkalosis.

(6 × 4 = 24 Marks)

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

39. Explain counter current mechanism in urine formation.
40. Write an essay on fat soluble vitamins.
41. Write an essay on hormonal disorders.
42. With flow chart, describe the mechanism of blood clotting.
43. Describe the ultra structure of muscle fibres with illustrations.
44. Write an essay on different types of Immunity.

(2 × 15 = 30 Marks)