

(Pages : 3)

P – 2566

Reg. No. : .....

Name : .....

**Fifth Semester B.Sc. Degree Examination, December 2022**

**First Degree Programme under CBCSS**

**Zoology**

**Core Course VIII**

**ZO 1543 – PHYSIOLOGY AND BIOLOGICAL CHEMISTRY**

**(2018 Admission)**

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions in **one** or **two** sentences.

1. What is protein energy malnutrition?
2. Hematuria
3. Parkinson's disease.
4. Myopia.
5. Progesterone.
6. Cofactors.
7. Diabetes insipidus.
8. Leydig cells.
9. Ketoses.
10. Epilepsy.

**(10 × 1 = 10 Marks)**

P.T.O.

II. Answer any **eight** of the following questions not exceeding **one** paragraph. Each carries **2** marks.

11. Transamination
12. Autotrophy and heterotrophy.
13. Omega oxidation.
14. Osmoregulation.
15. Goiter.
16. Parathyroid gland.
17. Functions of proteins.
18. Glycosidic bond.
19. Abnormal constituents of urine.
20. Explain the structure of inner ear.
21. Neurotransmitters.
22. Lifestyle diseases.
23. Intra uterine contraceptive devices.
24. Gustatory receptors
25. Saltatory propagation
26. Balanced diet.

**(8 × 2 = 16 Marks)**

III. Answer any **six** of the following questions. Each question carries **4** marks.

27. Hormones involved in urine formation.
28. Explain Lactation and hormones associated with it.
29. Glycogenolysis.
30. Factors affecting enzyme action.
31. Explain enzymatic and hormonal role of pancreas.
32. Mechanism of Enzyme action.
33. Simple lipids, explain its structure and specific characteristic.
34. Photochemistry of vision.
35. Synaptic transmission.
36. Cardio vascular diseases.
37. Physiological effects of smoking.
38. Renal disorders.

**(6 × 4 = 24 Marks)**

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

39. Explain the process of blood coagulation.
40. Give the physiological and biochemical events in muscle contraction.
41. Explain the process of gas transport.
42. Explain the process of glycolysis.
43. Explain Kreb's cycle.
44. Explain feedback mechanism of enzyme action with examples.

**(2 × 15 = 30 Marks)**

---