

Reg. No. : .....

Name : .....

**Third Semester B.Sc. Degree Examination, February 2024**

**First Degree Programme Under CBCSS**

**Zoology**

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

**ZO 1331.1 – FUNCTIONAL ZOOLOGY**

**(2019 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions (1 marks each).

1. Spleen
2. Lymphocytes
3. Actin
4. Goitre
5. Uremia
6. Thrombosis
7. Gigantism
8. Muscle twitch
9. Sickle cell anaemia
10. Fatigue

(10 × 1 = 10 Marks)

II. Answer **any eight** of the following (Not to exceed one paragraph). **Each** carries **2** marks.

11. Thymus
12. Active immunity
13. Diabetes melitus
14. Lymph nodes
15. Sketch and label a neuron.
16. Resting potential
17. Anticoagulants
18. Hypercapnia
19. Antigens
20. Acromegaly
21. Latent period
22. Dietary proteins.

**(8 × 2 = 16 Marks)**

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

23. Explain counter current mechanism.
24. Describe synapse and synaptic transmission.
25. Explain neurotransmitters.
26. Describe the composition of urine.
27. Explain oxygen debt.

28. Describe about vaccination.
29. Describe respiratory pigments.
30. Saltatory transmission.
31. Differentiate between tetanus and tonus.

**(6 × 4 = 24 Marks)**

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

32. Write an essay on the structure and function of Immunoglobulin.
33. Explain the role of hormones in reproductive cycle.
34. List the various endocrine glands and their corresponding hormones.
35. Describe Haemophilia.

**(2 × 15 = 30 Marks)**

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