



**B.Sc. IV Semester (CBCS) Degree Examination,  
August/September - 2022**

**ZOOLOGY**

**Z-4 : Animal Physiology and Biochemistry**

Time : 3 Hours

Maximum Marks : 70

- Instructions :** (i) Answer **all** Sections.  
(ii) Draw labelled diagrams wherever necessary.

**SECTION - A**

Answer **any five** of the following.

5x2=10

1. What is Dentition ? Write the Dental formula of Man.
2. Where do you find Bicuspid and Tricuspid valves ?
3. What are Cranial Meninges ? Expand CSF.
4. Define Biomolecules. Give any two examples.
5. Mention the factors affecting enzyme activity.
6. What is the chemical name of Vitamin-A and Vitamin-D ?

**SECTION - B**

- I. Answer **any four** of the following.

4x5=20

7. Explain the process of Protein Digestion in Human beings.
8. Distinguish between Myogenic and Neurogenic Heart.
9. Explain the classification of animals based on their Nitrogenous waste.
10. Sketch and label Multipolar Neuron.
11. Enumerate Gonadal Hormones and their functions.



II. Answer **any two** of the following.

2x5=10

12. What are Carbohydrates ? Mention their significance in Human body.

13. What are Enzymes ? Explain mechanism of Enzyme action (Lock & Key).

14. Describe the role of Vitamin-A in Human beings.

### SECTION - C

I. Answer **any two** of the following.

2x10=20

15. Explain Mechanism of Origin and conduction of Heart beat with a neat labelled diagram.

16. Describe the steps involved in the process of urine formation.

17. Enumerate the hormones secreted by Adenohypophysis of Pituitary gland and their functions.

II. Answer **any one** of the following.

1x10=10

18. Write a note on the sources, functions and deficiency diseases of water soluble vitamins.

19. Give the detailed account of the steps involved in Krebs Cycle.

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