



**B.Sc. II Semester (NEP) Degree Examination,
September/October - 2022**

ZOOLOGY

Biochemistry and Physiology

Time : 3 Hours

Maximum Marks : 60

Note : (i) Answer **all** Sections.

(ii) Draw labelled diagrams wherever necessary.

SECTION - A

Answer the following sub-questions.

10x1=10

1. (a) What do you mean by Non-essential Amino acids ? Give example.
- (b) Define Epicardium and Myocardium.
- (c) Expand ACTH and ADH.
- (d) Name the main six groups of Enzymes.
- (e) What is spermatogenesis ?
- (f) Define Glycolysis and Glycogenolysis.
- (g) What is dentition ? Mention the dental formula of man.
- (h) Name any two deficiency diseases of Vitamin-A.
- (i) What is Endocrinology ?
- (j) Which hormone is regarded as 'pregnancy hormone' ?

SECTION - B

Answer **any four** of the following questions.

4x5=20

2. List out the biological significance of carbohydrates.
3. Briefly explain about the sources, functions and deficiency diseases of Vitamin-D and Vitamin-K.
4. Describe the process of protein digestion in man.
5. Draw a neat labelled diagram of the multipolar myelinated neuron.
6. Write a short note on placental hormones and its function.
7. Describe the steps involved in the process of urine formation.



SECTION - C

Answer **any three** of the following questions.

3x10=30

8. Give a detailed account of saturated and unsaturated fatty acids.
9. Explain the sources, functions and deficiency diseases of water soluble vitamins.
10. Describe the transport of carbondioxide in blood during the process of Respiration.
11. Explain the histology of the different types of muscles with the help of labelled diagrams.
12. Explain the process of oogenesis with a schematic representation. Add a note on the female sex hormones.

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