



B.Sc. II Semester Degree Examination, Sept./Oct. - 2024

ZOOLOGY

DSC3 : Biochemistry and Physiology

(NEP)

Time : 2 Hours

Maximum Marks : 60

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- Note :** (i) Answer **all** sections.
(ii) Draw labelled diagrams wherever necessary.
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SECTION - A

Answer the following sub-questions.

10x1=10

1. (a) What is Disaccharide ?
(b) Expand DGL.
(c) How many ATP molecules are produced by the breakdown of one molecule of Glucose in Aerobic Respiration ?
(d) Name the deficiency diseases of Vitamin 'C'.
(e) Mention the dental formula of Human Beings.
(f) Define Hypertension.
(g) Expand ACTH.
(h) Mention the proteins present in Muscle fibre.
(i) What is Oogenesis ?
(j) Name any two Placental Hormones.

SECTION - B

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

4x5=20

2. List out the biological significance of proteins.
3. Briefly explain the sources, functions and deficiency diseases of Vitamin 'A'.
4. Describe the process of Protein digestion in Man.
5. Write a short note on :
 - (i) Antidiuretic Hormone
 - (ii) Oxytocin



6. Give brief account of Spermatogenesis with schematic representation.
7. Write a short note on functions of Blood.

SECTION - C

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

3x10=30

8. Define Carbohydrates. Briefly explain the classification of carbohydrates with examples.
9. Explain the steps involved in Glycolysis.
10. With a neat labelled diagram explain V.S. of Human Heart.
11. Describe the ultrastructure of Multipolar Neuron with a neat labelled diagram.
12. Distinguish between Sperm and Ovum.

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