



DCZO201

Reg. No.

--	--	--	--	--	--	--	--

II Semester B.Sc. Degree Examination, July/August -2024

ZOOLOGY

Biochemistry and Physiology

(NEP Scheme (F+R) 2021 Onwards)

Paper : II



Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

1. Draw diagrams wherever necessary.
2. Answer should be written in English.

PART - A

I. Answer All the following questions.

(5×1=5)

1. Name the bond present in Proteins.
2. Where does the citric acid cycle occur in a cell.
3. Name any one respiratory pigment.
4. What is the normal blood pressure of a healthy human.
5. Name the pituitary hormone responsible for Gigantism.

PART - B

II. Answer any Five of the following questions.

(5×3=15)

1. What are Disaccharides? Give two examples.
2. Differentiate between simple and conjugated proteins.
3. What are Isozymes? Mention any two clinical use of it.
4. Briefly explain deamination.
5. Write a note on cardiac cycle.
6. Describe the structure of trachea.
7. Mention three hormones of Adrenal cortex.

[P.T.O.]

**PART - C****III. Answer any Four of the following questions.****(4×5=20)**

1. Briefly explain saturated and unsaturated fatty acids.
2. Give the schematic diagram of Glycolysis.
3. Explain urea cycle.
4. Sketch and label V.S. of human kidney.
5. Explain multipolar neuron with the labelled diagram.
6. Briefly explain ultrastructure of skeletal muscle fibre.

PART - D**IV. Answer any Two of the following questions.****(2×10=20)**

1. Write notes on:
 - a) Classification of carbohydrates.
 - b) Mechanism of Enzyme action.
 2. Describe Kerb's cycle.
 3. Explain the digestion of carbohydrates in gastro intestinal tract.
 4. Define endocrine gland? Mention the hormones of pituitary gland along with a function each.
-