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DCZO201

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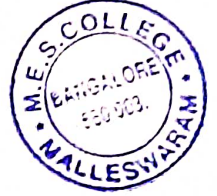
II Semester B.Sc. Degree Examination, September - 2023

ZOOLOGY

Biochemistry And Physiology

(Semester NEP Scheme Freshers and Repeaters)

Paper : II



Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

1. Draw neat labelled diagrams wherever necessary
2. Answer should be completely in English.

PART - A

I. Answer the following.

(5×1=5)

1. Define conjugated protein.
2. What are tripeptide linkages?
3. Give the normal blood pressure of adult healthy human.
4. Enzyme produced by salivary gland is _____
5. Name the functional unit of skeletal muscle.

PART - B

II. Answer any Five of the following.

(5×3=15)

1. Differentiate between saturated and unsaturated fatty acids.
2. Write the structural formula of isoleucine and glycine.
3. What are isozymes? Mention two clinical uses.
4. Briefly explain deamination.
5. Write a note on pulmonary ventilation.
6. Mention the components of blood.
7. List the types of synapses.

[P.T.O.]



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PART - C

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III. Answer any Four of the following.

(4×5=20)

1. Write a note on classification of enzymes.
2. Explain glycolysis.
3. With a schematic representation explain urea cycle.
4. Give an account on transport of oxygen.
5. Draw a neat labelled diagram of multipolar neuron.
6. Write notes on :
 - a. Muscle twitch.
 - b. Motor unit.

PART - D

IV. Answer any Two of the following.

(2×10=20)

1. What are enzyme inhibitors? Discuss competitive, non - competitive and uncompetitive inhibitors.
 2. Write notes on :
 - a. Biosynthesis of palmitic acid.
 - b. Gluconogenesis.
 3. Describe chemical digestion of carbohydrates.
 4. Give a detailed account on molecular and chemical basis of muscle contraction.
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