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Total Pages : 3

Roll No.

MZO-507

Physiological Chemistry

M.Sc. Zoology (MSCZO)

Ist Semester Examination, 2023 (June)

Time : 2 Hours]

[Max. Marks : 35

Note : This paper is of Thirty Five (35) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION-A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

1. Discuss on the Bioenergetics of High energy compounds?

2. What is the Enzyme inhibition? Explain the competitive and non- competitive inhibition.
3. Describe the sequence of reaction of glycolysis with a diagrammatic representation.
4. Classify the Amino acids along with their structure.
5. Describe the Biosynthesis of Fatty acids.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Explain the biosynthesis of Purines.
2. Write a short note on the dipolar Ion.
3. Write a short note on co-enzymes and Proenzymes.
4. Explain the structure and function of Phospholipids.
5. What is the β -Oxidation of Lipids?

6. What is the importance of electron transport chain (ETC)?
 7. Explain the process of Gluconeogenesis.
 8. Briefly describe the chemistry & structure of monosaccharides.
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