

S-181

Total Pages : 3

Roll No.

MSCZO-504

Bio-Chemistry

M.Sc. Zoology (MSCZO)

1st Semester Examination, 2022 (Dec.)

Time : 2 Hours]

Max. Marks : 70

Note : This paper is of Seventy (70) 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 Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. Define lipids. Write an account of classification of lipids with suitable examples.

2. Describe in detail the process of glycolysis.
3. What are main buffers in the body? Explain their mechanism of work in detail.
4. Write an account of various factors affecting enzyme activity.
5. Define and elaborate : (6+6+7=19)
 - (a) Anion and Cation.
 - (b) Oxidation and Reduction.
 - (c) Reducing agents and oxidizing agents.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. What are coenzymes? Write about their significance and chemical structures.
2. Describe the chemistry, sources, daily requirement and deficiency manifestations of vitamin-A.

3. Write notes on :
 - (a) Porphyrins.
 - (b) Transmethylation.
 4. Describe mechanism of enzyme action.
 5. Explain electron transport chain (ETC) and write its significance.
 6. Give detailed account of degradation of cholesterol.
 7. Describe β -oxidation of fatty acids.
 8. Write notes on :
 - (a) Bile pigments.
 - (b) Transamination.
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