

C301

Total Pages : 3

Roll No.

MSCZO-504

Bio-Chemistry

M.Sc. Zoology(MSCZO-2I)

1st Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) 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 Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. Describe the mechanism of Enzyme catalysis and the factors affecting the rate of reactions catalyzed by enzymes.

2. Give detailed account of water soluble vitamins.
3. What are proteins? Explain their primary, secondary, tertiary and quaternary structures.
4. What are lipids? Give detail account of their structures, classification and functions.
5. Explain electron transport chain in detail.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Explain biological buffers.
2. What are Polysaccharides?
3. Write three laws of thermodynamics and their biological significance.
4. Write a short note on β -oxidation.
5. Explain Ramachandran Plot.

6. What is K_m ? Describe its significance.
 7. Write a short note on Vitamin D.
 8. Write a short note on Biological oxidation-reduction reactions.
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