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Total No. of Pages : 01

Total No. of Questions : 08

M.Sc. MLS (Biochemistry) (Sem.-1)
STRUCTURE AND FUNCTIONS OF BIOMOLECULES
Subject Code : MMLT-101-18
Paper ID : [75409]

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT question.
2. Each question carries FOURTEEN marks.

1. Describe the occurrence, structure, properties and functions of starch.
2. What are glycoproteins? Describe their biological applications giving suitable examples.
3. What are nucleotides and nucleosides? Describe the Watson & Crick model of DNA structure.
4. Describe the structure, properties and biological roles of phospholipids and sphingolipids.
5. What is Ramachandran plot? Describe the super secondary, tertiary and quaternary structure of a protein giving a suitable example.
6. What are vitamins? Describe the sources, structure, biochemical functions, deficiency diseases and daily requirements of ascorbic acid.
7. Describe the classification of proteins on the basis of solubility, shape, structure and biological functions.
8. What are fats and waxes? Describe the physiochemical properties and characteristics of fats and oils.