Roll No. | | | | | | | | | | | | **Total No. of Pages : 01**

Total No. of Questions : 08

M.Sc. MLS (Biochemistry) (Sem.–1)

FUNDAMENTALS OF ENZYMOLOGY

Subject Code : MMLT-103-18

M.Code : 75411

Date of Examination: 14-01-2023

Time : 3 Hrs. **Max. Marks : 50**

INSTRUCTIONS TO CANDIDATES :

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

1. Write a note on Michaelis-Menton equation. Give the calculation of Km and Vmax values.

2. Write a note on following:

   i) Allosteric enzymes

   ii) Monocyclic and multicyclic cascade system

   iii) Acid base catalysis

3. Explain various applications of enzymes in medicine and industry.

4. Discuss the principle and clinical value of estimation of SGOT and SGPT.

5. Describe in detail the process of enzyme inhibition. Discuss its types with some suitable example.

6. Describe the mechanism of enzyme action. Discuss how activity of the enzyme is regulated.

7. Explain induced fit hypothesis of enzyme action. How enzyme action is regulated?

8. What is Activation energy? Discuss the role of various factors on the rate of enzyme catalyzed reaction.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.