Roll No.

Total No. of Pages: 01

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M.Sc. MLS (Biochemistry) (2018 Batch) (Sem.-1) FUNDAMENTALS OF ENZYMOLOGY

Subject Code: MMLT-103-18 M.Code: 75411

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) What are enzymes? Classify enzymes. Discuss the lock and key arrangement of enzymes. Give their various properties.
- 2) Write a detailed note on derivation of Michaels Menten equation.
- 3) Write notes on:
  - a) Enzyme specificity
  - b) Application of enzymes in medicine and industry
- 4) Describe in detail the process of enzyme inhibition. Discuss its types with some suitable example.
- 5) What are iso-enzymes? Discuss the principle, method and clinical significance of alkaline phosphatase estimation.
- 6) Write notes on:
  - a) Therapeutic use of asparginase and streptokinase
  - b) Immobilized enzymes
- 7) What is transamination? Discuss the principle, method and clinical significance of aspartate aminotransferase estimation.
- 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.

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