Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐ Total No. of Pages : 01

Total No. of Questions : 08

M.Sc. MLS (Biochemistry) (2018 Batch)   (Sem.–1)
FUNDAMENTALS OF ENZYMOLOGY
Subject Code : MMLT-103-18
M.Code : 75411

Time : 3 Hrs.   Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

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

1)   What is specific activity of an enzyme? How measurement of enzyme activity is done?

2)   What is activation energy? Discuss various factors responsible for catalytic efficiency of enzymes.

3)   Give the derivation of Michaelis-Menten equation.

4)   Discuss various applications of enzymes in medicine and industry.

5)   What are iso-enzymes? Give the diagnostic importance of LDH.

6)   Give the principle, normal value and clinical value of estimation of SGPT.

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

8)   Write short notes on :

     a) Km and Vmax values

     b) Allosteric enzymes