Exam. Code : 107404
Subject Code : 1773

B.Sc. (Bio Technology) 4th Semester

ENZYMOLOGY

Paper-BT-8

Time Allowed— 2 Hours] [Maximum Marks—40

Note :—There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

1. What are enzymes ? Explain different classes of enzymes with suitable examples.
2. Explain the various properties and characteristics of enzymes.
3. What are the factors responsible for catalytic efficiency of enzymes ? Explain acid base catalysis.
4. Explain Induced fit hypothesis and Strain Distortion theory.
5. Explain the kinetics of single and bi-substrate enzyme catalyzed reactions.
6. Explain Lineweaver-Burk plot and its significance.
7. Describe competitive, non competitive and uncompetitive type of enzyme inhibition and its kinetics.
8. What are allosteric enzymes ? Explain simple sequential model and concerted/symmetry model for allosteric enzymes.

Exam. Code : 107404
Subject Code : 1773

B.Sc. (Bio Technology) 4th Semester

ENZYMOLOGY

Paper-BT-8

Time Allowed— 2 Hours] [Maximum Marks—40

Note :—There are **Eight** questions of equal marks. Candidates are required to attempt any **Four** questions.

1. What are enzymes ? Explain different classes of enzymes with suitable examples.
2. Explain the various properties and characteristics of enzymes.
3. What are the factors responsible for catalytic efficiency of enzymes ? Explain acid base catalysis.
4. Explain Induced fit hypothesis and Strain Distortion theory.
5. Explain the kinetics of single and bi-substrate enzyme catalyzed reactions.
6. Explain Lineweaver-Burk plot and its significance.
7. Describe competitive, non competitive and uncompetitive type of enzyme inhibition and its kinetics.
8. What are allosteric enzymes ? Explain simple sequential model and concerted/symmetry model for allosteric enzymes.

6723(2721)/II-5687