

M.Sc. (Microbiology) First Semester Old
MB1-T003 - Enzymology & Techniques (ET) Paper-III

P. Pages : 1

Time : Three Hours



GUG/W/18/2188

Max. Marks : 80

1. Explain in detail about Michaelis-Menten equation and give its transformation. 16

OR

Explain Kinetics of enzyme inhibition. 16

2. Explain catalytic mechanism of enzyme ribonuclease and Lysozyme. 16

OR

a) Write a note on Active site determination. 8

b) Explain proximity and orientation effects in catalytic mechanism of enzyme. 8

3. Explain kinetic analysis of allosteric enzymes and its role in regulation of enzyme activity. 16

OR

Explain the terms constitutive and inducible enzymes and write the regulation mechanism. 16

4. Explain the term enzyme biosensors and write its industrial applications. 16

OR

a) Explain the significance of Immobilized enzymes. 8

b) Discuss Various methods of purification of enzymes. 8

5. Write a note on-

a) Kinetics of bisubstrate reaction. 4

b) Preferential binding in catalytic mechanism. 4

c) Multienzyme complex. 4

d) Protein engineering. 4
