

M.Sc. (Microbiology) (CBCS Pattern) First Semester
PSMBT-103 - Enzymology & Techniques Paper-III

P. Pages : 1

Time : Three Hours



GUG/W/18/11173

Max. Marks : 80

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- Notes : 1. All questions are compulsory.
2. Draw diagram wherever necessary.

1. Discuss Michalis-Menten equation and its modification. 16

OR

Explain classification of enzymes with example. 16

2. Give the mechanism of serine protease, and add a note on its active site determination. 16

OR

Write a note on:

a) Mechanism of ribonuclease. 8

b) Acid - base catalysis and metal ion catalysis. 8

3. Discuss the kinetic analysis of allosteric enzyme and its modifications. 16

OR

Describe in detail feedback inhibition. Add note on covalent modifications. 16

4. Discuss various methods of purification of enzymes. 16

OR

Write note on:

a) Immobilization of enzymes and its applications. 8

b) Glucose biosensor and its application. 8

5. Write a note on:

a) Uncompetitive inhibition. 4

b) Concept of active site. 4

c) LDH. 4

d) Concerted model. 4
