

M.Sc. (Microbiology) (CBCS Pattern) Sem-I
PSMBT-103 - Paper-III : Enzymology & Techniques

P. Pages : 1

Time : Three Hours



GUG/W/22/11173

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well labeled diagrams wherever necessary Serial

1. Explain in details Michaelis-Menten equation and its transformation? **16**
- OR**
- a) Discuss in details classification of enzymes. **8**
- b) Write a note on multi-step reaction. **8**
2. Explain the mechanism of active site determination and mechanism of Ribonuclease. **16**
- OR**
- a) Explain the mechanism of active site determination for Lysozyme? **8**
- b) Write a note on covalent catalysis. **8**
3. Describe in details Allosterism and Kinetic analysis of allosteric enzyme? **16**
- OR**
- Explain:
- a) Isoenzymes and marker enzymes? **8**
- b) Membrane bound enzyme. **8**
4. Describe in details methods of purification and fractionation? **16**
- OR**
- Discuss details Immobilized enzymes and Industrial applications of enzymes? **16**
5. Write a note on:
- a) Enzyme inhibition? **4**
- b) Concept of active site, determination of active site? **4**
- c) Feed-back inhibition? **4**
- d) Protein Engineering **4**
