

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

P. Pages : 1

Time : Three Hours



GUG/S/23/11173

Max. Marks : 80

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1. Describe in detail Michaelis – Menten Equation and its transformation? 16
- OR**
- i) Discuss in detail reversible enzyme inhibition? 8
- ii) Describe in detail classification of enzyme? 8
2. Describe in detail active site determination and mechanism of ribonuclease? 16
- OR**
- i) Give the account of mechanism of lysozyme? 8
- ii) Discuss in detail acid-base catalysis? 8
3. Describe in details allosterism and its kinetic analysis? 16
- OR**
- i) Give the account of feed-back inhibition? 8
- ii) Discuss in detail multienzyme complex with mechanism? 8
4. Describe in detail methods of purification and fractionation of enzyme? 16
- OR**
- i) Discuss in detail co-operative ligand binding of MWC? 8
- ii) Give the account of enzyme biosensor? 8
5. Write in short **all** compulsory.
- i) Discuss multistep reaction. 4
- ii) Discuss Acid base catalysis. 4
- iii) Discuss in detail LDH? 4
- iv) Discuss immobilized enzyme? 4
