

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**

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