

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

P. Pages : 1

Time : Three Hours



GUG/W/23/11173

Max. Marks : 80

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

- 1.** Describe in detail Michaelis-Menten equation and their application? **16**
- OR**
- i) Discuss in detail reversible enzyme inhibition? **8**
- ii) Describe in detail classification of Enzymes? **8**
- 2.** Describe in detail determination and mechanism of lysozyme Enzyme? **16**
- OR**
- i) Give the account of mechanism of serine? **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 Membrane bound enzymes? **8**
- ii) Discuss in detail multienzyme complex with mechanism? **8**
- 4.** Describe in detail methods of purification and fractionation? **16**
- OR**
- i) Discuss in detail co-operative ligand binding of MWC? **8**
- ii) Give the account of Immobilized enzymes? **8**
- 5.** Write in short – all compulsory?
- i) Discuss in detail evaluation of kinetic parameters? **4**
- ii) Discuss Concept of active site? **4**
- iii) Discuss in detail LDH? **4**
- iv) Discuss enzyme biosensor? **4**
