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

1. What is Inhibition? Describe in detail their type and its application? **16**

OR

i) Derive Mm equation? **8**

ii) Describe in detail classification of enzymes? **8**

2. Describe active site determination and mechanism of ribonuclease enzyme? **16**

OR

i) Give the account of metal ion cofactors? **8**

ii) Discuss in detail acid-base catalysis? **8**

3. Describe in details feed-back inhibition of enzyme? **16**

OR

i) Give the account of marker 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 Allosterism and its kinetic analysis? **4**

iv) Discuss enzyme biosensor? **4**
