



Notes : 1. All questions are compulsory and carry equal marks.

1. What are enzymes? Explain the classification and nomenclature of enzyme. 16

OR

a) Derive the Michaelis Menten equation. 8

b) Explain the model which explain the mechanism of enzyme action. 8

2. Write a note on fatty acid synthase. 16

OR

a) What is enzyme inhibition? Describe Irreversible enzyme inhibition. 8

b) Add a note on enzyme inhibition kinetics. 8

3. Explain the purification and Isolation of enzymes. 16

OR

a) Write a note on

a) Covalent catalysis. 8

b) Metal ion catalysis. 8

4. Explain in Detail chemical modification and calmodulin mediated regulation. 16

OR

a) Explain the types of allosteric regulation. 8

b) Comment on proteolytic activation of Enzyme with example. 8

5. a) Write the application of enzymes in food industry. 4

b) What is enzyme inhibition?
Give the types of inhibitor. 4

c) Write a note on membrane bound enzyme. 4

d) Write note on ping-pong mechanism. 4
