Short Questions

(1) How a catalyst effects the energy of activation?
(2) What is catalytic poisoning?
(3) What are promoters? Give examples.
(4) What is the effect of surface area on adsorption?
(5) Define heterogeneous catalysis and give examples.
(6) Write any two postulates of Langmuir adsorption isotherm.
(7) Differentiate b/w physical and chemical adsorption.
(8) What is meant by enzyme inhibition.
(9) Define auto-catalysis. Give example.
(10) What is peptization?
(11) What do you mean by adsorption isotherms?
(12) Define Zeta-Potential?
(13) Define enzyme catalysis with a suitable example.
(14) What is homogeneous catalysis. Write two examples.

(15) Enzymes as catalysts are specific in nature, justify.

Long Questions

(1) What is adsorption? Discuss adsorption phenomenon. OR Discuss Langmuir adsorption isotherm.
(2) Explain Michaelis-Menton mechanism for enzyme catalysis.
(3) Explain Langmuir-Hinshelwood mechanism to study organic and inorganic reactions.
(4) What are Adsorption isotherms. Explain.
(5) Explain catalytic reaction of two gases on a solid surface by Eiley-Rideal mechanism.
(6) What is enzyme catalysis? Derive the rate law expression for enzyme catalyzed reaction suffering uncompetitive inhibition.
(7) What is catalysis? Discuss its types.