

CHEMISTRY-11	Chapter#11-Second Half (11.4 – 11.6) Test-1		
	Name:	Class:	ID:
Date: / /	Marks Total: 25	Marks Obtained:	
Time Allowed: 40 Min.			

Maximum Marks: 09 **(OBJECTIVE TYPE)** Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- With increase of 10°C temperature the rate of reaction doubles. This increase in rate of reaction is due to:
 - Decrease in activation energy of reaction.
 - Decrease in the number of collisions between reactant molecules.
 - Increase in activation energy of reactants.
 - Increase in number of effective collisions.
- The elements of group IA are _____ reactive than that of IIA.
 - More
 - Equally
 - Less
 - None
- The reaction intermediate formed during the reaction $2\text{NO} + 2\text{H}_2 \rightarrow 2\text{H}_2\text{O} + \text{N}_2$ is:
 - NO_2
 - N_2O_4
 - NO_3
 - H_2O_2
- Arrhenius equation explains the effect of _____ on the rate constant of a reaction.
 - Temperature
 - Concentration
 - Pressure
 - Activation energy
- A catalyst is a substance which _____ the rate of a chemical reaction.
 - Increases
 - Decreases
 - Alters
 - None
- In the presence of Al_2O_3 , formic acid is decomposed into:
 - $\text{H}_2\text{O} + \text{CO}$
 - $\text{H}_2 + \text{CO}$
 - $\text{H}_2\text{O} + \text{CO}_2$
 - $\text{H}_2 + \text{CO}_2$
- In Haber's process, the activity of iron catalyst can be increased by:
 - Aluminum oxide
 - Chromium oxide
 - Rare earth oxide
 - All
- _____ proposed the enzyme-substrate activated complex mechanism for enzyme catalysis.
 - Michaulis and Menter
 - Payan and Persoz
 - Koshland
 - Pasteur
- The rate of enzyme catalyzed reaction passes through a maximum at a particular pH called:
 - Optimum pH
 - Critical pH
 - Prime pH
 - Threshold pH

Maximum Marks: 16 **(SUBJECTIVE TYPE)** Time Allowed: 30 Min.

SECTION-I

Q.2: Give brief answers to the following questions: (12)

- Name different methods for determining the order of reaction.
- Describe method of large excess for finding the order of reaction?
- How does light affect the rate of photochemical reactions?
- Differentiate between homogenous and heterogeneous catalyses.
- A finely divided catalyst may prove more effective. Give examples.
- Give two characteristics of enzyme catalysis.

SECTION-II

NOTE: Attempt All Questions: (04)

Q.3: Describe half life method for finding the order of reaction.