CHEMISTRY-11	Chapter#11(Complete) Test-5		
	Name:	Class:	ID:
Date: / /	**Marks Total: 40**	**Marks Obtained:**	
Time Allowed: 75 Min.			

Maximum Marks: 08 **(OBJECTIVE TYPE)** Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

1. **The rate of reaction:**
   (a) Increases as the reaction proceeds.
   (b) Decreases as the reaction proceeds.
   (c) Remains the same as the reaction proceeds.
   (d) May decrease or increase as the reaction proceeds.
2. **The rate of reaction determined at any given time is called:**
   (a) Average rate (b) Instantaneous rate (c) Sponataneous rate (d) Overall rate
3. **The units of rate constant for second order reaction are:**
   (a) Moles $dm^{-3}s^{-1}$ (b) $Moles^{-1}dm^3s^{-1}$ (c) $Moles^{-2}dm^6s^{-1}$ (d) s^{-1}
4. **Which reaction has fractional order?**
   (a) $2NO + 2H_2O \rightarrow 2H_2O + N_2$ (b) $NO + O_3 \rightarrow NO_2 + O_2$
   (c) $2HI \rightarrow H_2 + I_2$ (d) $CHCl_3 + Cl_2 \rightarrow CCl_4 + HCl$
5. **The half-life period for the disintegration of radioactive $^{225}_{92}U$ is:**
   (a) 7.1×10^8 thousand years (b) 7.1×10^8 million years
   (c) 7.1×10^8 billion years (d) 7.1×10^8 years
6. **The reaction intermediate formed during the reaction $2NO + 2H_2 \rightarrow 2H_2O + N_2$ is:**
   (a) NO_2 (b) N_2O_4 (c) NO_3 (d) H_2O_2
7. **In the presence of Al_2O_3, formic acid is decomposed into:**
   (a) $H_2O + CO$ (b) $H_2 + CO$ (c) $H_2O + CO_2$ (d) $H_2 + CO$
8. **The first enzyme was prepared in the laboratory in:**
   (a) 1869 (b) 1769 (c) 1965 (d) 1959

Maximum Marks: 32 **(SUBJECTIVE TYPE)** Time Allowed: 75 Min.

SECTION-I

Q.2: Give brief answers to the following questions: **(20)**

i. Define order of reaction? Give an example.
ii. The radioactive decay is always a first order reaction. Explain.
iii. What is dilatometric method for measuring the rate of reaction?
iv. What are the types of collisions?
v. Name different methods for determining the order of reaction.

vi. How does surface area affect the rate of the reaction? Give an example. Or Why powdered Al reacts more rapidly with cold NaOH than Al foil with warm NaOH?

vii. Write two characteristics of a catalyst.

viii. A finely divided catalyst may prove more effective. Give examples.

ix. What is a promoter or activator? Give an example.

x. How do enzymes catalyze a reaction? OR What is the mechanism of enzyme catalysis?

SECTION-II

NOTE: Attempt All Questions: **(12)**

Q.3: Write a note on specific rate constant or velocity constant.

Q.4: Explain chemical method to determine the rate of reaction.

Q.5: Describe half life method for finding the order of reaction.