

CHEMISTRY-11	Chapter#11-Second Half (11.4 – 11.6) Test-3		
	Name:	Class:	ID:
Date: / /	Marks Total: 30	Marks Obtained:	
Time Allowed: 50 Min.			

Maximum Marks: 10

(OBJECTIVE TYPE)

Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- The hydrolysis of sugar is catalyzed by:
 - Urease
 - Invertase
 - Zymase
 - Diastase
- Half-life period of any reaction is inversely proportional to the initial concentration of the reactant raised to power _____ than the order of the reaction.
 - One more
 - One less
 - Two more
 - Two less
- If the rate equation of the reaction $2NO + 2H_2 \rightarrow 2H_2O + N_2$ is $Rate = k[H_2]^1[NO]^2$. By doubling the concentration of NO, the rate becomes:
 - 2 times
 - 4 times
 - 8 times
 - 9 times
- In sunlight, the reaction between H_2 and Cl_2 is:
 - Slow
 - Moderate
 - Explosive
 - Negligible
- The reaction between H_2 and O_2 to form water proceeds rapidly in the presence of _____ as catalyst.
 - Pt
 - $CuCl_2$
 - MnO_2
 - Ni
- Which one is the example of homogeneous catalysis?
 - Oxidation of SO_2 in contact process
 - Hydrolysis of ester
 - Oxidation of NH_3 to form NO
 - Hydrolysis of vegetable oil
- The oxidation of NH_3 to NO is catalyzed by:
 - Ni
 - Pd
 - Pt
 - All
- In the presence of Cu, formic acid is decomposed into:
 - $H_2O + CO$
 - $H_2 + CO$
 - $H_2O + CO_2$
 - $H_2 + CO_2$
- In Haber's process, the activity of catalyst is poisoned by:
 - CO
 - S
 - As
 - Si
- The first enzyme was prepared in the laboratory in:
 - 1869
 - 1769
 - 1965
 - 1959

Maximum Marks: 20

(SUBJECTIVE TYPE)

Time Allowed: 50 Min.

SECTION-I

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

- Name the factors which affect the rate of reaction.
- Define catalyst and catalysis.
- A catalyst may be changed physically at the end of reaction. Explain with example.
- What are the types of catalytic poisoning?
- How do enzymes catalyze a reaction? OR What is the mechanism of enzyme catalysis?
- What is optimum pH of enzyme?

SECTION-II

NOTE: Attempt All Questions:

(08)

Q.3: How light and surface area affect the rate of chemical reaction.

Q.4: Explain the effect of temperature on the rate of reaction by Arrhenius equation.