

CHEMISTRY-11	Chapter#11(Complete-Smart Syllabus) 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:

- The unit of the rate constant is the same as that of the rate of reaction in:
 - First order reaction
 - Second order reaction
 - Zero order reaction
 - Third order reaction
- All radioactive disintegration nuclear reactions are of:
 - First order
 - Second order
 - Third order
 - Zero order
- Arrhenius equation is represented as:
 - $A = k^{-E_a/RT}$
 - $A = k^{RT/-E_a}$
 - $k = Ae^{RT/-E_a}$
 - $k = Ae^{-E_a/RT}$
- The units of rate constant for first order reaction are:
 - Moles $dm^{-3}s^{-1}$
 - Moles $^{-1}dm^3s^{-1}$
 - Moles $^{-2}dm^6s^{-1}$
 - s^{-1}
- Which reaction has fractional order?
 - $2NO + 2H_2O \rightarrow 2H_2O + N_2$
 - $NO + O_3 \rightarrow NO_2 + O_2$
 - $2HI \rightarrow H_2 + I_2$
 - $CHCl_3 + Cl_2 \rightarrow CCl_4 + HCl$
- The half-life period of a reaction is equal to $\frac{1.5}{ka^2}$. The order of reaction is:
 - 1
 - 2
 - 3
 - 0
- For endothermic reaction, the E_a of reverse reaction is _____ that of forward reaction.
 - Greater than
 - Smaller than
 - Equal to
 - All
- In daylight, the reaction between H_2 and Cl_2 is:
 - Slow
 - Moderate
 - Explosive
 - Negligible
- The units of the slope are:
 - $kJ mol^{-1}$
 - $JK^{-1} mol^{-1}$
 - $K mol^{-1}$
 - K

Maximum Marks: 16

(SUBJECTIVE TYPE)

Time Allowed: 30 Min.

SECTION-I

Q.2: Give brief answers to the following questions:

(12)

- Define rate of reaction. Give its units?
- Differentiate between average rate and instantaneous rate.
- Define rate equation or rate law.
- The radioactive decay is always a first order reaction. Explain.
- Define activation energy and activated complex.
- Why powdered Al reacts more rapidly with cold NaOH than Al foil with warm NaOH?

SECTION-II

NOTE: Attempt All Questions:

(04)

Q.3: Define order of reaction and give one example of first, second and third order reactions.