

ECAT Chemistry Chapter 11 Reaction Kinetics

Sr	Questions	Answers Choice
1	In zero order reaction, the rate is independent of :	A. Temperature of reaction B. Concentration of reactants C. Concentration of products D. None of these.
2	Activation energy is the difference of energy between the energy of the reactant and	A. The product B. The activated complex C. Both a and b D. None of these
3	The rate of reaction :	A. Increase as the reaction proceeds. B. Decreases as the reaction proceeds. C. Remains the same as the reaction proceed. D. May decrease or increase as the reaction proceeds.
4	When copper is allowed to react with HNO_3 , the reaction is slow in the beginning, finally becomes very fast. It is due to the formation of an auto catalyst which is	A. $\text{Cu}(\text{NO}_3)_2$ B. CuO C. O_2 D. HNO_2
5	With increases in temperature of 10 K of the reacting gases the rate of reaction is doubled because	A. Increase in number of collisions B. Number of molecules having energy more than E_a is doubled C. Increase in order of reaction D. Increase in surface area
6	Which one of the following reaction rate is effected by the light	
7	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. 2 B. 3 C. 4 D. 9
8	Hydrolysis of ethyl-acetate (ester) has order of reaction :	A. 3 B. 2 C. 1 D. 1
9	The rate of reaction determined at a given time is called	A. Average rate B. Instantaneous rate C. Specific rate D. Overall rate
10	The reaction rate is expressed in the units of	A. $\text{Mol dm}^{-3} \text{ s}^{-1}$ B. Mol dm^{-3} C. $\text{Mol dm}^{-3} \text{ N}^{-1} \text{ s}^{-1}$ D. $\text{dm}^{-3} \text{ s}^{-1}$
11	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
12	Decreases on concentration of reactant is denoted by	A. $\frac{dc}{dt}$ B. $-\frac{dc}{dt}$ C. $+\frac{dc}{dt}$ D. None
13	If half life period of a reaction is independent of the concentration of the reactants, then the reaction is	A. Zero order B. First order C. Second order D. Order is in fraction
14	A white precipitate of silver chloride immediately formed on addition of :	A. Silver nitrate solution to sodium chloride solution. B. Silver chloride solution to sodium nitrate solution. C. Silver nitrate solution to potassium chloride solution D. Silver nitrate solution to hydrogen chloride solution.

15	A pseudo uni-molecular reaction has order of reaction :	A. 3 B. 2 C. 1 D. 0
16	If the rate equation of a reaction $2A+B \rightarrow \text{Products}$ is , Rate = $k[A][B]$, and A is present in large excess, then order of reaction is :	A. 1 B. 2 C. 3 D. Above
17	Half life period of a first order reaction is independent of:	A. Presence of catalyst. B. Conditions of temperature C. Initial concentration of the compound D. All of above
18	Question Image <input type="text"/>	A. Three times B. Six times C. Nine times D. Two times
19	If the rate of decay of radioactive isotope decreases from 200 cpm to 25 cpm after 24 hours, what is its half life :	A. 8 hours B. 6 hours C. 4 hours D. 3 hours
20	When we perform the same reaction by taking two different initial concentrations of a reactant for a second order reaction then	A. Reaction becomes exothermic B. Energy of activation is different C. Mechanism of reaction is changed D. Half life period is changed