Reaction Kinetics

Sr	Questions	Answers Choice
1	Increase in surface area	A. Increases rate B. Decreases rate C. No effect D. Stops reaction
2	Rate determining step controls	A. Overall rate B. Temperature C. Volume D. Final yield
3	Unit of rate constant for first order reaction is	A. mol dm-3 B. mol -1 dm3 s-1 C. s-1 D. J mol-1
4	Rate of fastest	A. At start B. In middle C. At end D. After completion
5	Higher pressur eincreases rate for	A. Solids B. Gases C. Liquids D. All phases
6	Intermediates are	A. Reactants B. Products C. Short lived species formed and consumed D. Stable compounds
7	On Boltzmann distribution curve, the area under the curve represents.	A. Activation energy of the rreaction B. Total numebr f moleclues in the sample C. Average kinetic energy of the molecules D. Rate constant of the reaction
8	If we double the conentration of a reactant, the rate increases by four times, the reactionis.	A. First Order B. Second Order C. Third Order D. Zero order
9	Half life of first order reaction	A. Become zero B. Increases with [A] C. Is independent of [A] D. Decreases with [A]
10	The order of a chemicla reaction, that is dependent of concentration is.	A. Second order reaction B. First order reaction C. Zeroorder reaction D. Pseudo first order reaction
11	The units of the rate constant (k) for a reaction depend on the	A. Activation energy of the reaction B. Temperature of the reaction C. Overall order of the reaction D. Stoichiometry of the balanced chemical equation
12	On a Boltzmann distribution curve, the activation energy is represented by	A. The height of the peak B. The area under the entire curve C. A vertical line drawn at a specific kinetic energy value D. The difference between the peak and the X axis
13	In color change reactions, which method is best	A. Colorimetry B. Titration C. Conductometry D. Manometry
14	First order reactions are best studies using.	A. log [A] vs time B. Pressure vs time C. [A] vs time

		D. Titration
15	In pressure of catalyst Delta H	A. Increases B. Decreases C. Double D. Unchanged
16	Which unit is common for all orders	A. mol dm-3 B. No common unit C. J mol -1 D. s-1
17	How does the presence of a catalyst affect the rate of a chemical reaction	A. It always decreases the rate of the reaction B. It always increases the rate of the reaction C. In increase the rate of the forward and decreases the rate of the reverse reaction D. It increases the rate of both the forward and reverse reactions
18	Homogenous catalysts are in	A. Same phase as reactionts B. Different phase C. Solid only D. Gaseous only
19	Delta G tells about	A. Speed B. Mechanism C. Feasibility D. All of these
20	Overall order is sum of	A. Coefficients B. Exponents in rate law C. Moles D. Products