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#### Practice: pages 20-25

- 1 Answer is B. From experiments 1 and 3 the order with respect to Cl<sub>2</sub> is 1 (the rate quadruples as the concentration doubles. Therefore, in an experiment using 0.80 mol dm<sup>-1</sup> of CO and 0.20 mol dm<sup>-2</sup> of Cl<sub>2</sub>, the rate will be halved from the 6.4 × 10<sup>-04</sup> mol dm<sup>-3</sup> min<sup>-1</sup> obtained in experiment 1. (There is no need to work out the order with respect to CO.)
- 2 Answer is B. The concentration halves every 120 s. So, the sequence of half-lives is 2.4 → 1.2 → 0.6 → 0.3 → 0.15; that is four half-lives which is 4 × 120 s. [1]
- Answer is C. For a zero order reaction, the rate of decomposition is a constant. [1]
- 4 Answer is A. the decomposition is Rate = k[X]<sup>2</sup> [1]
  - From the data given,  $0.016 = k[1]^2$  [1]
  - Therefore,  $k = 0.016 \text{ s}^{-1}$ . If  $\{X\} = 0.25 \text{ mol dim}^{-1}$ , rate = 0.016 $[0.25]^2$ = 0.001 dm<sup>3</sup> mol<sup>-2</sup> s<sup>-2</sup>
- 6 Answer is D. I<sub>2</sub> has an order of zero and is not involved in the rate-determining step. Therefore, it can be ignored. In D. [0.1](2) has a value that is greater than [0.1](1).
- 7 Answer is C. The slow step + the fast step must give the overall equation. I must, therefore, be removed in the fast step in a reaction with G, and some J and K must be formed. [1
- 8 Answer is B. The rate equation is Rate = k[halide] so statements 1 and 2 are correct. Raising the temperature will increase the rate of reaction by allowing more molecules to exceed the activation energy, but the activation energy is fixed and will not change. [1]
- 9 Answer is D. Increasing the amount of ozone present does not change the order with respect to ozone. A large excess is not necessary to ensure enough ozone is present. The purpose of a large excess is to make sure that during the reaction its concentration is virtually constant Therefore, only statement 3 is correct.
- 10 Answer is A. Experiments 2 and 3 give the order with respect to X as zero. Experiments 1 and 2 give the order with respect to Y as 2. So statements 1 and 2 are correct. The rate constant is calculated from a set of results, for example, experiment 1 gives 0.08 = k[0.10]<sup>2</sup>.
- So  $k = 8.0 \text{ dm}^3 \text{ mmol}^{-1} \text{ s}^{-1}$  and statement 3 is, therefore, correct. [1]
- 11 a)  $2N_2O_3(g) \rightarrow 4NO_2(g) + O_2(g)$  [1]
  - b) i) For every 2 mol of N<sub>2</sub>O<sub>3</sub> that reacts 4 mol of NO<sub>2</sub> is formed. Therefore, the rate of formation of NO<sub>3</sub> is twice as fast as the loss of N<sub>2</sub>O<sub>3</sub>, i.e. 7.0 × 10<sup>-4</sup> mol dm<sup>-2</sup> s<sup>-1</sup>. [1]
    - For oxygen, the rate of formation will be  $\frac{1}{2}$  the rate of loss of N<sub>2</sub>O<sub>3</sub>. i.e.  $1.75 \times 10^{-6}$  mol dm<sup>-8</sup> s<sup>-6</sup>

# **Reaction Rate Edguinity Answers**

D. Heidrich

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particularly when it is used as a basis for reaction rate theories above and beyond TST The RP is a theoretical instrument that now forms the theoretical heart of direct dynamics It is particularly useful for the interpretation of reactions in common chemical systems A suitable definition of the RP of potential energy surfaces is necessary to ensure that the reaction theories based on it will possess sufficiently high quality Thus we have to consider three important fields of research Analysis of potential energy surfaces and the definition and best calculation of the RPs or at least of a number of selected and chemically interesting points on it The further development of concrete vers ions of reaction theory beyond TST which are applicable for common chemical systems using the RP concept

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