Faculty Submitting: Siobhan Toal
Specify here whether "Pre" or "End" of Unit and the Unit \#: Pre Unit 11


|  | Which of the following is true: <br> Correct <br> The rate that B is consumed is twice the rate that A is consumed Wrong <br> The rate of that A is consumed twice the rate of consumption of B The rate that A and B are consumed is constant over time The rate that C is produced is twice the rate that B is consumed |
| :---: | :---: |
| Read More | https://openstax.org/books/chemistry-2e/pages/12-1-chemical-reaction-rates |
| $\begin{gathered} \text { Unit 11_ } \\ \text { Question } 3 \end{gathered}$ | Question Type: Multiple Answers/Checkboxes |
| a | Which of the following would typically increase reactant rate in forward direction (towards product formation)? <br> Correct Answers: <br> Increasing reactant concentration <br> Increasing temperature <br> Breaking down solid into powder <br> Addition of effective catalyst <br> Wrong Answer <br> Increasing Product Concentration |
| b | Which of the following would not typically increase reactant rate in forward direction (towards product formation)? <br> Correct Answers: <br> Increasing Product Concentration <br> Wrong Answer <br> Increasing reactant concentration <br> Increasing temperature <br> Breaking down solid into powder <br> Addition of effective catalyst |
| Read More | https://openstax.org/books/chemistry-2e/pages/12-1-chemical-reaction-rates |
| $\begin{gathered} \text { Unit 11_- } \\ \text { Question } 4 \end{gathered}$ | Question Type: Multiple Drop Downs <br> Given the following rate law, the rate constant for the reaction is [drop 1], the order with respect to reactant A is [drop 2] and the order with respect to B is [drop 3] rate $=0.11 \mathrm{M}^{-2} \mathrm{~s}^{-1}[A]^{1}[B]^{2}$ <br> Drop 1 |


|  | $0.11 \mathrm{M}^{-2} \mathrm{~s}^{-1}$ <br> Drop 2 <br> 1 <br> Drop 3 <br> 2 |
| :---: | :---: |
| Read More | https://openstax.org/books/chemistry-2e/pages/12-1-chemical-reaction-rates |
| $\begin{gathered} \hline \text { Unit 11_ } \\ \text { Question } 5 \end{gathered}$ | Question Type: Multiple Choice |
|  | Question Text: Given the following rate law, what can be said about the rate of reaction $\text { rate }=0.11 \mathrm{M}^{-2} \mathrm{~s}^{-1}[A]^{1}[B]^{2}$ <br> Correct Answer: the rate of reaction depends more on the concentration of $B$ then $A$ <br> Wrong Answers: <br> the rate of reaction depends more on the concentration of $A$ then $B$ the rate of reaction depends equally on the concentration of A and B the rate of reaction is independent of $A$ and $B$ concentrations |
| Read More | https://openstax.org/books/chemistry-2e/pages/12-3-rate-laws |
| Unit 11_ Question 6 | Question Type: Multiple Choice |
| a | Question Text: Doubling the concentration of a reactant increases the rate of a reaction four times. With this knowledge, answer the following questions: What is the order of the reaction with respect to that reactant? <br> Correct Answer:2 <br> Wrong Answers <br> 0 <br> 1 <br> 4 |
| b | Question Text: Doubling the concentration of a reactant doubles the rate of a reaction. With this knowledge, answer the following questions: What is the order of the reaction with respect to that reactant? |


|  | Correct Answer: 1 <br> Wrong Answers <br> 0 <br> 2 <br> c <br> 4 |
| :---: | :--- |
| Question Text: Doubling the concentration of a reactant has no effect on the <br> rate of a reaction. With this knowledge, answer the following questions: What is <br> the order of the reaction with respect to that reactant? <br> Correct Answer: 0 <br> Wrong Answers <br> 1 <br> 2 <br> Unit 11_- |  |
| Question $\mathbf{7}$ | Question Text: According to the Arrhenius equation and collision theory, <br> which factor(s) increase rate of a reaction. <br> Increasing temperature <br> Decreasing activation energy Ea <br> Adding a catalyst <br> Increasing the number of successful collisions <br> (all correct) |
| Read More | https://openstax.org/books/chemistry-2e/pages/12-5-collision-theory |

