
AP CHEMISTRY FINAL EXAM REVIEW 2

1. Is energy absorbed or released in an endothermic reaction?: Absorbed.
2. What is the sign of delta H for an exothermic reaction?: Exothermic reactions release energy. The sign of delta H is negative.
3. When you touch a flask and it feels hot, is this an endothermic or exothermic process?: Exothermic; heat is being given off.
4. Define specific heat capacity.: The amount of heat required to raise 1g of a substance to 1 degrees Celsius.
5. $q = mc(\Delta T)$; What does "q" stand for?: Heat (kJ)
6. $q = mc(\Delta T)$; What does "c" stand for?: Specific heat capacity (J / g degrees C)
7. What is a hydrogen ion donor called?: An acid.
8. What is a hydrogen ion acceptor called?: A base.
9. Feels slippery; acid or base?: Base.
10. Tastes sour; acid or base?: Acid.
11. Tastes bitter; acid or base?: Base.
12. $\text{pH} < 7$; acid, base, or neutral?: Acid
13. $\text{pH} > 7$; acid, base, or neutral?: Base
14. Define neutralization.: When an acid reacts with a base to form water and a salt. $\text{pH} = 7$.
15. Soap; acid or base?: Base (tastes bitter)
16. Ammonia, acid or base?: Base (drain cleaners are bases).
17. Lemonade; acid or base?: Acid (tastes sour)
18. How many valence electrons are in an atom of chlorine?: 7
19. How many valence electrons does aluminum have?: 3
20. Define Reaction Rate: The decrease in concentration of reactants or the increase in concentration of products with time.
21. How does increasing temperature affect the rate of reaction?: Increasing temperature causes the kinetic energy to increase. Thus, molecules are moving faster and colliding more frequently. This causes the rate of reaction to increase.
22. If I decrease the concentration of reactant, what happens to the rate of reaction?: Decreasing concentration leads to less reactants available for collision. Therefore, reaction rate decreases.
23. How does surface area influence reaction rate?: By increasing the surface area of reactant molecules, we are increasing the space or point of contact that these molecules have available

2nd Semester Chemistry Final Exam Review Answers

Karl Krumsieg, Marie Baehr



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Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium and Blue Sky Andrew M. Olney, Irene-Angelica Chounta, Zitao Liu, Olga C. Santos, Ig Ibert Bittencourt, 2024-07-01 This volume constitutes poster papers and late breaking results presented during the 25th International Conference on Artificial Intelligence in Education AIED 2024 which took place in Recife Brazil during July 8 12 2024 The 18 full papers and 92 short papers were carefully reviewed and selected from 200 submissions They are organized in topical sections as follows Part One Blue Sky Industry Innovation and Practitioner Wide AIED and Late Breaking Results Part Two Late Breaking Results Doctoral Consortium Workshops and Tutorials **Quarterly Review of Distance Education** Michael Simonson, Charles Schlosser, 2018-10-01 The Quarterly Review of Distance Education is a rigorously refereed journal publishing articles research briefs reviews and editorials dealing with the theories research and practices of distance education The Quarterly Review publishes articles that utilize various methodologies that permit generalizable results which help guide the practice of the field of distance education in the public and private sectors The Quarterly Review publishes full length manuscripts as well as research briefs editorials reviews of programs and scholarly works and columns The Quarterly Review defines distance education as institutionally based formal education in which the learning group is separated and interactive technologies are used to unite the learning group **Resources in Education** , 1990-05

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, 2002

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Table of Contents 2nd Semester Chemistry Final Exam Review Answers

1. Understanding the eBook 2nd Semester Chemistry Final Exam Review Answers
 - The Rise of Digital Reading 2nd Semester Chemistry Final Exam Review Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Chemistry Final Exam Review Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2nd Semester Chemistry Final Exam Review Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Chemistry Final Exam Review Answers
 - Personalized Recommendations
 - 2nd Semester Chemistry Final Exam Review Answers User Reviews and Ratings
 - 2nd Semester Chemistry Final Exam Review Answers and Bestseller Lists

5. Accessing 2nd Semester Chemistry Final Exam Review Answers Free and Paid eBooks
 - 2nd Semester Chemistry Final Exam Review Answers Public Domain eBooks
 - 2nd Semester Chemistry Final Exam Review Answers eBook Subscription Services
 - 2nd Semester Chemistry Final Exam Review Answers Budget-Friendly Options
6. Navigating 2nd Semester Chemistry Final Exam Review Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 2nd Semester Chemistry Final Exam Review Answers Compatibility with Devices
 - 2nd Semester Chemistry Final Exam Review Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2nd Semester Chemistry Final Exam Review Answers
 - Highlighting and Note-Taking 2nd Semester Chemistry Final Exam Review Answers
 - Interactive Elements 2nd Semester Chemistry Final Exam Review Answers
8. Staying Engaged with 2nd Semester Chemistry Final Exam Review Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2nd Semester Chemistry Final Exam Review Answers
9. Balancing eBooks and Physical Books 2nd Semester Chemistry Final Exam Review Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2nd Semester Chemistry Final Exam Review Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2nd Semester Chemistry Final Exam Review Answers
 - Setting Reading Goals 2nd Semester Chemistry Final Exam Review Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2nd Semester Chemistry Final Exam Review Answers
 - Fact-Checking eBook Content of 2nd Semester Chemistry Final Exam Review Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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