
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

Saul Wischnitzer, Edith Wischnitzer



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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.

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Resources in Education, 1990-05 Essentials of Physical Chemistry Don Shillady, 2011-07-27 At a time when U.S. high school students are producing low scores in mathematics and science on international examinations, a thorough grounding in physical chemistry should not be considered optional for science undergraduates. Based on the author's thirty years of teaching, *Essentials of Physical Chemistry* merges coverage of calculus with chemistry and molecular physics in a friendly yet thorough manner. Reflecting the latest ACS guidelines, the book can be used as a one or two semester course and includes special topics suitable for senior projects. The book begins with a math and physics review to ensure all students start on the same level and then discusses the basics of thermodynamics and kinetics with mathematics tuned to a level that stretches students' abilities. It then provides material for an optional second semester course that shows students how to apply their enhanced mathematical skills in a brief historical development of the quantum mechanics of molecules. Emphasizing spectroscopy, the text is built on a foundation of quantum chemistry and more mathematical detail and examples. It contains sample classroom tested exams to gauge how well students know how to use relevant formulas and to display successful understanding of key concepts. Coupling the development of mathematical skills with chemistry concepts encourages students to learn mathematical derivations. Mini biographies of famous scientists make the presentation more interesting from a people point of view. Stating the basic concepts of quantum chemistry in terms of analogies provides a pedagogically useful technique. Covering key topics such as the critical point of a van der Waals gas, the Michaelis-Menten

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Lorena Dennison Ambrose,2007-04-09 Lorena an unworldly young girl who has always bowed to her father s tyrannical demands meets a charming young man who is quite taken with her When they are seen together word gets back to her father and he orders Lorena to stay away from the young man who is the son of his enemy The enmity arose when he lost an expensive court case against him He breaks up the budding romance by locking Lorena in her room and she is a prisoner in her parents house She is forced to marry a much older man and becomes a prisoner on her husband s ranch He abuses her physically and psychologically Read how she escapes and rebuilds her life *Official Report, of the Student Curriculum Evaluation Committee, 1968-1969* University of Virginia. College of Arts and Sciences. Student Curriculum Evaluation Committee,1969 Iterations, II Russell Batt,John W. Moore,1987 **El-Hi Textbooks in Print** ,1977 Biology Edward C. Gruber,1963 *College Chemistry* Harold Goldwhite,John R. Spielman,1984 An outline of the basic concepts of chemistry includes discussions of scientific notation atomic structure chemical bonding and the periodic table **Guide to Medical**

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pdf brain tumor extraction from mri images using matlab - Mar 13 2023

jan 1 2020 in this paper we propose a matlab programming for separating tumor images in brain magnetic resonance mr data the detection of tumor accuracy extremely seen by the

analysis of mri data for brain tumor detection using - Jul 17 2023

apr 29 2020 this methodology gives for huge clinical practice in the brain tumors detection that makes easy to identify the patient based on mr image data in this paper we propose a

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the problem cancer detection the goal is to build a classifier that can distinguish between cancer and control patients from the mass spectrometry data the methodology followed in

does anyone have the code for brain tumor detection using - Mar 01 2022

this is a brain tumor project based on image processing made using matlab we are going to detect brain tumor using matlab and basic knowledge of image processing we will use

cancer detection matlab simulink example mathworks - Aug 06 2022

i am including it in this file for better implementation detection of brain tumor was done from different set of mri images using matlab the concept of image processing and

detecting brain tumour from mri image using matlab gui - Jul 05 2022

classification of brain mri scan volumes into chronological age of participants using image processing and deep learning in matlab braincancer detection using

brain mri tumor detection and classification file - Aug 18 2023

feb 15 2016 a matlab code is written to segment the tumor and classify it as benign or malignant using svm the features

used are dwt pca statistical texture how to run 1

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braincancer detection using matlab github - May 03 2022

kalyan acharjya on 25 may 2019 hello nishad there are numerous literature including code available in public domain do google regarding the topic of brain tumor detection the

brain tumor detection github topics github - Sep 19 2023

feb 26 2022 pull requests this repository contains the source code in matlab for this project one of them is a function code which can be imported from mathworks i am including it in this file for better implementation detection of brain tumor was done from different set of