

Name: _____

Date: _____

Acids and Bases Problems

1. Without doing any calculations, identify each of the following solutions as acidic or basic:

a) $[\text{H}_3\text{O}^+] = 3.4 \times 10^{-6} \text{ M}$ _____

b) $[\text{OH}^-] = 1.8 \times 10^{-5} \text{ M}$ _____

c) $[\text{OH}^-] = 6.5 \times 10^{-12} \text{ M}$ _____

d) $[\text{H}_3\text{O}^+] = 2.6 \times 10^{-4} \text{ M}$ _____

2. A solution of HBr has $[\text{H}_3\text{O}^+] = 4.5 \times 10^{-3} \text{ M}$. Calculate the pH of this solution.

3. Complete the following table.

pH	$[\text{H}_3\text{O}^+]$	$[\text{OH}^-]$	Acidic, basic, or neutral?
	5.4×10^{-4}		
	1.3×10^{-5}		
10.75	1.8×10^{-11}	5.6×10^{-4}	

4. If the pH of a solution is 10.3, what is the $[\text{H}^+]$ concentration?

5. If the $[\text{H}^+]$ is $2.1 \times 10^{-12} \text{ M}$ HClO_4 , what is the pH? Is the solution ACIDIC, BASIC, or NEUTRAL?

6. Calculate the pH if the $[\text{OH}^-]$ concentration is $5.9 \times 10^{-1} \text{ M}$? Is the solution ACIDIC, BASIC, or NEUTRAL?

Acids And Bases Practice Problems Answers

Norma Metheny

Acids And Bases Practice Problems Answers:

Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples and completely solved practice problems are greatly expanded containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step by step process for problem solving whether mathematical or conceptual. Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts. Includes a chapter designed to eliminate confusion concerning acid base reactions which often persists through working with acid base equilibrium. Many chapters provide alternative viewpoints as an aid to understanding. This book addresses a very real need for a large number of incoming freshman in STEM fields. **Student Solutions Manual** Darrell Ebbing, 2005-03-17 Provides solutions to odd numbered Practice Problems, General Problems and Cumulative Skills Problems plus answers to Review Questions.

Dental State Board Questions and Answers Rudolph Max Goepp, 1919 **Veterinary State Board Questions and Answers** Victor Gage Kimball, 1917

Cracking the GRE Chemistry Subject Test Princeton Review (Firm), 2005 The GRE subject tests are among the most difficult standardized exams. Rather than testing general problem solving skills they require highly specialized knowledge. The experts at The Princeton Review have thoroughly researched each subject test to provide students with the most thorough up to date information available. Students don't need to relearn the entire histories of their fields just what they need to know to earn high scores on the exams. Each guide includes one full length practice exam complete with comprehensive explanations for every solution.

Questions Set at the Examinations College Entrance Examination Board, 1921 **General Organic and Biological Chemistry** Kenneth W. Raymond, 2013-01-10 General Organic and Biological Chemistry 4th Edition Binder Ready Version has been written for students preparing for careers in health related fields such as nursing, dental hygiene, nutrition, medical technology and occupational therapy. It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry. An integrated approach is employed in which related general chemistry, organic chemistry and biochemistry topics are presented in adjacent chapters. This approach helps students see the strong connections that exist between these three branches of chemistry and allows instructors to discuss these interrelationships while the material is still fresh in students' minds. This text is an unbound binder ready edition.

Understanding Chemistry Fred M. Dewey, 1994 **Organic**

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Practitioner ,1919 Fluid and Electrolyte Balance Norma Metheny,2012 Fluid and Electrolyte Balance Nursing Considerations takes a case study and applications approach that is ideal for undergraduate nursing students It provides in depth discussion of fluid and electrolyte balance and imbalance with a strong focus on understanding pathophysiology Further it outlines basic concepts and gives an overview of nursing considerations for fluid and electrolyte problems including sodium potassium calcium magnesium and acid base imbalances *Questions and Problems in Chemistry* Floyd Lavern Darrow,1921 **Study Questions and Problems in Inorganic Chemistry** Alexander Silverman,1924

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