

CHAPTER 14 Acids and bases in the environment

Chapter review

Name: _____

MULTIPLE CHOICE QUESTIONS

- Which of the following is the best definition of an acid?
(a) An acid is an electron acceptor.
(b) An acid is a substance that tastes sour.
(c) An acid is a substance that donates H^+ .
(d) An acid is a substance that accepts H^+ .
C
- Consider the following equation and state the species which are acting as bases in this reaction.



- $\text{HCN}(\text{aq})$ and $\text{H}_2\text{O}(\text{l})$
 - $\text{HCN}(\text{aq})$ and $\text{H}_3\text{O}^+(\text{aq})$
 - $\text{HCN}(\text{aq})$ and $\text{CN}^-(\text{aq})$
 - $\text{H}_2\text{O}(\text{l})$ and $\text{CN}^-(\text{aq})$D
- The sourness of food is a reasonable guide to its acidity, since sourness increases with increasing acidity. If food A is more sour than food B, then it is likely that:
(a) A has a higher pH than solution B
(b) A has more $\text{OH}^-(\text{aq})$ ions than B
(c) B is a stronger acid than A
(d) A has a higher concentration of $\text{H}_3\text{O}^+(\text{aq})$ ions than B.
D
- Hydrogen sulfide, H_2S , is a gas at room temperature and dissolves in water. When this solution is tested, it conducts electricity and turns litmus solution red.
The solution is acidic because:
(a) the H_2S has gained a proton
(b) the H_2O has gained a proton
(c) the H_2S and H_2O have gained protons
(d) the H_2S and H_2O have lost protons.
B
- The conjugate base of the species $\text{H}_2\text{PO}_4^-(\text{aq})$ is:
(a) $\text{H}_3\text{PO}_5(\text{aq})$
(b) $\text{HPO}_4^{2-}(\text{aq})$
(c) $\text{H}_2\text{PO}_6(\text{aq})$

Chapter 1the Chemistry Of Acids Bases Study Questions

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Study Questions and Problems in Inorganic Chemistry Alexander Silverman,1924 Environmental Science and International Politics David E. Henderson,Susan K. Henderson,2018-03-01 Environmental Science and International Politics features two reacting games in one volume immersing students in the complex process of negotiating international treaties to control environmental pollution The issues are similar in all the modules environmental justice national sovereignty and the inherent uncertainty of the costs and benefits of pollution control Students also must understand the basic science of each problem and possible solutions Acid Rain in Europe 1979 1989 covers the negotiation of the Long Range Transport Pollution treaty This was the first ever international pollution control treaty and remains at the forefront of addressing European pollution This game can be used in a variety of ways and to examine either sulfur dioxide pollution nitrogen oxide pollution or both This game includes summaries of a number of relevant technical articles to support student arguments Students must deal with the limitations of national resources as they decide how much of their limited money to spend Climate Change in Copenhagen 2009 covers the negotiations at the Conference of Parties 15 meeting that was attended by a large number of national leaders The game also includes representatives of non government organizations and the press Students wrestle with the need to work within conflicting limits set by their governments General Chemistry for Engineers Jeffrey Gaffney,Nancy Marley,2017-11-13 General Chemistry for Engineers explores the key areas of chemistry needed for engineers This book develops material from the basics to more advanced areas in a systematic fashion As the material is presented case studies relevant to engineering are included that demonstrate the strong link between chemistry and the various areas of engineering Serves as a unique chemistry reference source for professional engineers Provides the chemistry principles required by various engineering disciplines Begins with an atoms first approach building from the simple to the more complex chemical concepts Includes engineering case studies connecting chemical principles to solving actual engineering problems Links chemistry to contemporary issues related to the interface between chemistry and engineering practices **A Problem-Solving Approach to Aquatic Chemistry** James N. Jensen,2022-12-20 A Problem Solving Approach to Aquatic Chemistry Enables civil and environmental engineers to understand the theory and application of aquatic equilibrium chemistry The second edition of A Problem Solving Approach to Aquatic Chemistry provides a detailed introduction to aquatic equilibrium chemistry calculation methods for systems at equilibrium applications of aquatic chemistry and chemical kinetics The text directly addresses two required ABET program outcomes in environmental engineering chemistry including stoichiometry equilibrium and kinetics and material and energy balances fate and transport of substances in and between air water and soil phases The book is very student centered with each chapter beginning with an introduction and ending with a summary that reviews the chapter s main points To aid in reader comprehension important terms are defined in context and key ideas are summarized Many thought provoking discussion questions worked examples and end of chapter problems are

also included Each part of the text begins with a case study a portion of which is addressed in each subsequent chapter illustrating the principles of that chapter In addition each chapter has an Historical Note exploring connections with the people and cultures connected to topics in the text A Problem Solving Approach to Aquatic Chemistry includes Fundamental concepts such as concentration units thermodynamic basis of equilibrium and manipulating equilibria Solutions of chemical equilibrium problems including setting up the problems and algebraic graphical and computer solution techniques Acid base equilibria including the concepts of acids and bases titrations and alkalinity and acidity Complexation including metals ligands equilibrium calculations with complexes and applications of complexation chemistry Oxidation reduction equilibria including equilibrium calculations graphical approaches and applications Gas liquid and solid liquid equilibrium with expanded coverage of the effects of global climate change Other topics including chemical kinetics of aquatic systems surface chemistry and integrative case studies For advanced senior undergraduates and first year graduate students in environmental engineering courses A Problem Solving Approach to Aquatic Chemistry serves as an invaluable learning resource on the topic with a variety of helpful learning elements included throughout to ensure information retention and the ability to apply covered concepts in practical settings

Instructor's Resource Manual Susan M. Young, 2006 **Study Guide for Chemical Principles** Thomas Elliott Taylor, 1979 *Laboratory Manual and Principles of Chemistry for Beginners* George Mann Richardson, 1894 Biochemistry David E. Metzler, 2001-04-25 The most comprehensive textbook reference ever to cover the chemical basis of life the Green Bible of Biochemistry has been a well respected contribution to the field for more than twenty years The complex structures that make up cells are described in detail along with the forces that hold them together and the chemical reactions that allow for recognition signaling and movement There is ample information on the human body its genome and the action of muscles eyes and the brain The complete set deals with the natural world treating the metabolism of bacteria toxins antibiotics specialized compounds made by plants photosynthesis luminescence of fireflies among many other topics The most comprehensive biochemistry text reference available on the market Organized into two volumes comprising 32 chapters and containing the latest research in the field Biological content is emphasized for example macromolecular structures and enzyme action are discussed *Basic Inorganic Chemistry* F. Albert Cotton, Geoffrey Wilkinson, Paul L. Gaus, 1995-01-18 Explains the basics of inorganic chemistry with a primary emphasis on facts then uses the student's growing factual knowledge as a foundation for discussing the important principles of periodicity in structure bonding and reactivity New to this updated edition improved treatment of atomic orbitals and properties such as electronegativity novel approaches to the depiction of ionic structures nomenclature for transition metal compounds quantitative approaches to acid base chemistry Wade's rules for boranes and carboranes the chemistry of major new classes of substances including fullerenes and silenes plus a chapter on the inorganic solid state *Chemistry* Oxtoby, 1994 Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26, 1923 **Technical Book**

Review Index ,1918 **The Journal of Industrial and Engineering Chemistry** ,1909 **Reference Catalogue of Current Literature** ,1920 Solutions Manual for Quantitative Chemical Analysis Daniel C. Harris, Charles A. Lucy, 2020-07-02 The solutions manual for the tenth edition of Quantitative Chemical Analysis 10th edition contains fully worked out solutions for all the problems in the text Written by the authors of the book Daniel Harris and Charles Lucy the solutions manual is a helpful study tool for students of analytical chemistry **General Chemistry** John Henry Secrist, Wendell Holmes Powers, 1966 **Qualitative Chemical Analysis** Mayce Cannon Sneed, 1921 *Regulations for the Preliminary Education of Elementary School Teachers* Great Britain. Board of Education, 1909 Annual Report Saskatchewan. Department of Education, 1913 **Annual Report - Dept. of Education** Saskatchewan. Department of Education, 1913

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