

## Assessment

## Chapter Test A

## Chapter: Acids and Bases

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- \_\_\_\_\_ 1. Which of the properties listed below is *not* characteristic of an acid?
- a sour taste
  - a slippery feel
  - the ability to conduct an electric current
  - reactivity with metals
- \_\_\_\_\_ 2. Which is an example of a weak acid?
- HCl
  - $\text{H}_2\text{SO}_4$
  - $\text{H}_3\text{PO}_4$
  - $\text{HNO}_3$
- \_\_\_\_\_ 3. Acetic acid is found in
- vinegar.
  - the stomach.
  - antacids.
  - oranges.
- \_\_\_\_\_ 4. A characteristic of an Arrhenius base is that it
- is an electrolyte.
  - tastes bitter.
  - dissociates to form  $\text{OH}^-$  ions.
  - All of the above
- \_\_\_\_\_ 5. Which of the following is a Brønsted-Lowry base?
- HCl
  - $\text{HCO}_3^-$
  - $\text{H}_3\text{O}^+$
  - $\text{H}_3\text{PO}_4$
- \_\_\_\_\_ 6. In the reaction represented by the equation
- $$\text{H}_2\text{C}_2\text{O}_4(\text{aq}) + \text{CH}_3\text{NH}_2(\text{aq}) \rightleftharpoons \text{HC}_2\text{O}_4^-(\text{aq}) + \text{CH}_3\text{NH}_3^+(\text{aq}),$$
- which of these is a conjugate acid-base pair?
- $\text{H}_2\text{C}_2\text{O}_4(\text{aq})$  and  $\text{CH}_3\text{NH}_2(\text{aq})$
  - $\text{H}_2\text{C}_2\text{O}_4(\text{aq})$  and  $\text{CH}_3\text{NH}_3^+(\text{aq})$
  - $\text{CH}_3\text{NH}_2(\text{aq})$  and  $\text{CH}_3\text{NH}_3^+(\text{aq})$
  - $\text{HC}_2\text{O}_4^-(\text{aq})$  and  $\text{CH}_3\text{NH}_3^+(\text{aq})$

# Modern Chemistry Chapter 5 Test

**Yicheng Fang**



## **Modern Chemistry Chapter 5 Test:**

Laboratory Experiments to Accompany "Modern Chemistry," Fredus Nelson Peters,1902      **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction      **Lab Experiments for Modern Chemistry** Tzimopoulo,1990

*Handbook of Isolation and Characterization of Impurities in Pharmaceuticals* Satinder Ahuja,Karen Mills Alsante,2003-07-18 The United States Food and Drug Administration FDA and other regulatory bodies around the world require that impurities in drug substance and drug product levels recommended by the International Conference on Harmonisation ICH be isolated and characterized Identifying process related impurities and degradation products also helps us to understand the production of impurities and assists in defining degradation mechanisms When this process is performed at an early stage there is ample time to address various aspects of drug development to prevent or control the production of impurities and degradation products well before the regulatory filing and thus assure production of a high quality drug product This book therefore has been designed to meet the need for a reference text on the complex process of isolation and characterization of process related synthesis and formulation impurities and degradation products to meet critical regulatory requirements It s objective is to provide guidance on isolating and characterizing impurities of pharmaceuticals such as drug candidates drug substances and drug products The book outlines impurity identification processes and will be a key resource document for impurity analysis isolation synthesis and characterization Provides valuable information on isolation and characterization of impurities Gives a regulatory perspective on the subject Describes various considerations involved in meeting regulatory requirements Discusses various sources of impurities and degradation products      **Lab Experiments Modern Chemistry** Harold Clark Metcalfe,1982      **Elementary Modern Chemistry** Wilhelm Ostwald,Harry Wheeler Morse,1909      **Instructor's Manual to Accompany Chemistry in the Modern World, Concepts and Applications** Frank L. Wiseman,1985      Modern Chemistry Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2000-12      **How to Prepare for the SSAT/ISEE, Secondary School Admissions Test/Independent School Entrance Exam** Jerome Shostak,Max Peters,2001 The authors offer thorough preparation for the nationally administered entrance exams required by many private high schools This book presents a diagnostic test two full length practice exams for both the SSAT and ISEE and extensive review material All questions are answered and keyed to the book s subject review sections      Modern Methods of Drug Discovery Alexander Hillisch,Rolf Hilgenfeld,2002-12-11 Research in the pharmaceutical industry today is in many respects quite different from what it used to be only fifteen years ago There

have been dramatic changes in approaches for identifying new chemical entities with a desired biological activity While chemical modification of existing leads was the most important approach in the 1970s and 1980s high throughput screening and structure based design are now major players among a multitude of methods used in drug discovery Quite often companies favor one of these relatively new approaches over the other e.g screening over rational design or vice versa but we believe that an intelligent and concerted use of several or all methods currently available to drug discovery will be more successful in the medium term What has changed most significantly in the past few years is the time available for identifying new chemical entities Because of the high costs of drug discovery projects pressure for maximum success in the shortest possible time is higher than ever In addition the multidisciplinary character of the field is much more pronounced today than it used to be As a consequence researchers and project managers in the pharmaceutical industry should have a solid knowledge of the more important methods available to drug discovery because it is the rapidly and intelligently combined use of these which will determine the success or failure of preclinical projects

[Abridged Science for High School Students](#) H. Messel, 2014-05-16 Abridged Science for High School Students Volume I is a general science book that provides a concise discussion of wide array of scientific topics The book is designed to supplement integrated science courses The contents of the text cover a wide variety of scientific disciplines and are not structured in any way The coverage of the book includes discussions on matter heat weather gravity time and evolution The book will be of great interest to anyone who wants to have access to a wide variety of scientific disciplines in one publication

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