

1999 Advanced Placement Chemistry Exam

Section I: Multiple Choice

Time — 1 hour and 30 minutes

NO CALCULATORS MAY BE USED WITH SECTION I.

Note: For all questions, assume that the temperature is 298 K, the pressure is 1.00 atmosphere, and solutions are aqueous unless otherwise specified.

Throughout the test the following symbols have the definitions specified unless otherwise noted.

T = temperature
 P = pressure
 V = volume
 S = entropy
 H = enthalpy
 G = free energy
 R = molar gas constant
 n = number of moles
 M = molar

m = molal
 L, mL = liter(s), milliliter(s)
 g = gram(s)
 nm = nanometer(s)
 atm = atmosphere(s)
 J, kJ = joule(s), kilojoule(s)
 V = volt(s)
 mol = mole(s)

Part A

Directions: Each set of lettered choices below refers to the numbered statements immediately following it. Select the one lettered choice that best fits each statement and then fill in the corresponding oval on the answer sheet. A choice may be used once, more than once, or not at all in each set.

Questions 1–4 refer to the following types of energy.

- (A) Activation energy
- (B) Free energy
- (C) Ionization energy
- (D) Kinetic energy
- (E) Lattice energy

1. The energy required to convert a ground-state atom in the gas phase to a gaseous positive ion
2. The energy change that occurs in the conversion of an ionic solid to widely separated gaseous ions
3. The energy in a chemical or physical change that is available to do useful work
4. The energy required to form the transition state in a chemical reaction

Questions 5–8 refer to atoms for which the occupied atomic orbitals are shown below.

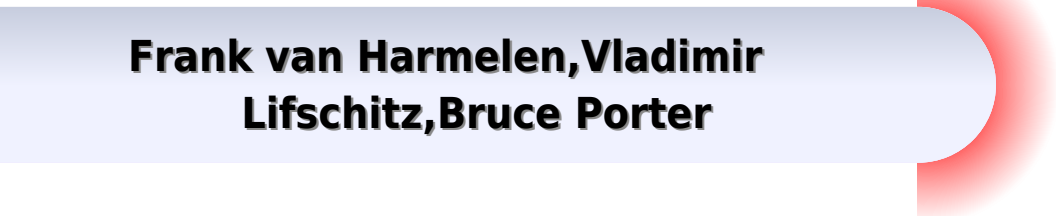
- (A) $1s \underline{\hspace{1cm}} 2s \underline{\hspace{1cm}}$
- (B) $1s \underline{\hspace{1cm}} 2s \underline{\hspace{1cm}}$
- (C) $1s \underline{\hspace{1cm}} 2s \underline{\hspace{1cm}} 2p \underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}}$
- (D) $1s \underline{\hspace{1cm}} 2s \underline{\hspace{1cm}} 2p \underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}}$
- (E) $[Ar] 4s \underline{\hspace{1cm}} 3d \underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}}$

5. Represents an atom that is chemically unreactive
6. Represents an atom in an excited state
7. Represents an atom that has four valence electrons
8. Represents an atom of a transition metal

Questions 9–12 refer to aqueous solutions containing 1:1 mole ratios of the following pairs of substances. Assume all concentrations are 1 M .

2008 Ap Chemistry Exam Multiple Choice Answers

**Frank van Harmelen, Vladimir
Lifschitz, Bruce Porter**



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overview of the major career options and earning potential sample college curricula and more Developing and Validating Test Items Thomas M. Haladyna, Michael C. Rodriguez, 2013-07-18 Since test items are the building blocks of any test learning how to develop and validate test items has always been critical to the teaching learning process As they grow in importance and use testing programs increasingly supplement the use of selected response multiple choice items with constructed response formats This trend is expected to continue As a result a new item writing book is needed one that provides comprehensive coverage of both types of items and of the validity theory underlying them This book is an outgrowth of the author's previous book *Developing and Validating Multiple Choice Test Items* 3e Haladyna 2004 That book achieved distinction as the leading source of guidance on creating and validating selected response test items Like its predecessor the content of this new book is based on both an extensive review of the literature and on its author's long experience in the testing field It is very timely in this era of burgeoning testing programs especially when these items are delivered in a computer based environment Key features include Comprehensive and Flexible No other book so thoroughly covers the field of test item development and its various applications Focus on Validity Validity the most important consideration in testing is stressed throughout and is based on the Standards for Educational and Psychological Testing currently under revision by AERA APA and NCME Illustrative Examples The book presents various selected and constructed response formats and uses many examples to illustrate correct and incorrect ways of writing items Strategies for training item writers and developing large numbers of items using algorithms and other item generating methods are also presented Based on Theory and Research A comprehensive review and synthesis of existing research runs throughout the book and complements the expertise of its authors *SAGE Handbook of Research on Classroom Assessment* James H. McMillan, 2013 The Sage Handbook of Research on Classroom Assessment provides scholars professors graduate students and other researchers and policy makers in the organizations agencies testing companies and school districts with a comprehensive source of research on all aspects of K 12 classroom assessment The handbook emphasizes theory conceptual frameworks and all varieties of research quantitative qualitative mixed methods to provide an in depth understanding of the knowledge base in each area of classroom assessment and how to conduct inquiry in the area It presents classroom assessment research to convey in depth the state of knowledge and understanding that is represented by the research with particular emphasis on how classroom assessment practices affect student achievement and teacher behavior Editor James H McMillan and five Associate Editors bring the best thinking and analysis from leading classroom assessment researchers on the nature of the research making significant contributions to this prominent and hotly debated topic in education **The Publishers Weekly** ,2008

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guide for getting through the college application process with tips on entrance essays financial aid forms and campus visits

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Part III discusses Knowledge Representation in applications such as question answering the semantic web automated planning cognitive robotics multi agent systems and knowledge engineering This book is an essential resource for graduate students researchers and practitioners in knowledge representation and AI Make your computer smarter Handle qualitative and uncertain information Improve computational tractability to solve your problems easily Science John Michels (Journalist),2008 **Student-staff Directory** University of Illinois at Urbana-Champaign,1995 Modern Techniques for Food Authentication Da-Wen Sun,2008-06-12 With the increasing awareness of food safety and quality consumers continuously demand the reassurance of origin and content of their foods Furthermore manufacturers must be able to confirm the authenticity of components of their products in order to comply with government legislation Protection of the rights of consumers genuine food processors and prevention of fraudulent or deceptive practices and the adulteration of food is an important and challenge facing the food industry Rapid scientific and technological advances in the determination of food authenticity have taken place in recent years and Modern Techniques for Food Authentication focuses on many of those novel techniques Including coverage of various spectroscopic technologies methods based on isotopic analysis and chromatography DNA enzymatic analysis electrophoresis and thermal methods this book provides a valuable international resource on the latest developments in food authentication A comprehensive overview of authentication techniques and technology Written by an international group of academic and professional peers Provides an excellent complement to more general books on food safety *Federal Student Aid* George Scott,2009-12 The Academic Competitiveness AC and National Science and Mathematics Access to Retain Talent SMART Grants were established by the Deficit Reduction Act of 2005 The grants provide merit based financial aid to certain low income college students eligible for Federal Pell Grants and are administered by the Dept of Education DoE In the first year of implementation participation was lower than expected This report determines 1 factors affecting AC and SMART Grant student participation 2 challenges colleges face in administering the grant programs and 3 the extent to which DoE has assisted states and colleges with implementation Includes recommendations Charts and tables **Illustrated Guide to Home Chemistry Experiments** Robert Bruce Thompson,2008-04-29 Provides information on setting up an in home chemistry lab covers the basics of chemistry and offers a variety of experiments *Multiple Solution Methods for Teaching Science in the Classroom* Stephen DeMeo,2008 For the first time in science education the subject of multiple solution methods is explored in book form While a multiple method teaching approach is utilized extensively in math education there are very few journal articles and no texts written on this topic in science Teaching multiple methods to science students in order to solve quantitative word problems is important for two reasons First it challenges the practice by teachers that one specific method should be used when solving problems Secondly it calls into question the belief that multiple methods would confuse students and retard their learning Using a case study approach and informed by research conducted by the author this book claims that providing students with a choice of

methods as well as requiring additional methods as a way to validate results can be beneficial to student learning. A close reading of the literature reveals that time spent on elucidating concepts rather than on algorithmic methodologies is a critical issue when trying to have students solve problems with understanding. It is argued that conceptual understanding can be enhanced through the use of multiple methods in an environment where students can compare, evaluate, and verbally discuss competing methodologies through the facilitation of the instructor. This book focuses on two very useful methods: proportional reasoning (PR) and dimensional analysis (DA). These two methods are important because they can be used to solve a large number of problems in all of the four academic sciences: biology, chemistry, physics, and earth science. This book concludes with a plan to integrate DA and PR into the academic science curriculum starting in late elementary school through to the introductory college level. A challenge is presented to teachers as well as to textbook writers who rely on the single method paradigm to consider an alternative way to teach scientific problem solving.

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