

# 1989 Advanced Placement Exam

# Part I Multiple Choice

*Note: For all questions referring to solutions, assume that the solvent is water unless otherwise stated.*

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 blacken the corresponding space on the answer sheet. A choice may be used once, more than once, or not at all in each set.

## Questions 1–3

a. O	c. Rb	e. N
b. La	d. Mg	

1. What is the most electronegative element?
2. Which element exhibits the greatest number of different oxidation states?
3. Which of the elements above has the smallest ionic radius for its most commonly found ion?

## Questions 4–7

- $1s^2 2s^2 2p^5 3s^2 3p^5$
- $1s^2 2s^2 2p^6 3s^2 3p^6$
- $1s^2 2s^2 2p^6 2d^{10} 3s^2 3p^6$
- $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5$
- $1s^2 2s^2 2p^6 3s^2 3p^6 3d^3 4s^2$

4. An impossible electronic configuration
5. The ground-state configuration for the atoms of a transition element
6. The ground-state configuration of a negative ion of a halogen
7. The ground-state configuration of a common ion of an alkaline earth element

## Questions 8–10

- a solution with a pH less than 7 that is not a buffer solution
- a buffer solution with a pH between 4 and 7
- a buffer solution with a pH between 7 and 10
- a solution with a pH greater than 7 that is not a buffer solution
- a solution with a pH of 7

(Ionization constants:

$$\text{CH}_3\text{COOH} = 1.8 \times 10^{-5}$$

$$\text{NH}_3 = 1.8 \times 10^{-5}$$

$$\text{H}_2\text{CO}_3: \quad K_1 = 4 \times 10^{-7}$$

$$K_2 = 4 \times 10^{-11}$$

8. A solution prepared to be initially 1 M in NaCl and 1 M in HCl
9. A solution prepared to be initially 1 M in  $\text{Na}_2\text{CO}_3$  and 1 M in  $\text{CH}_3\text{COONa}$
10. A solution prepared to be initially 0.5 M in  $\text{CH}_3\text{COOH}$  and 1 M in  $\text{CH}_3\text{COONa}$

## Questions 11–14

- hydrogen bonding
- hybridization
- ionic bonding
- resonance
- van der Waals forces (London dispersion forces)

11. Is used to explain why iodine molecules are held together in the solid state
12. Is used to explain why the boiling point of HF is greater than the boiling point of HBr
13. Is used to explain the fact that the four bonds in methane are equivalent
14. Is used to explain the fact that the carbon-to-carbon bonds in benzene,  $\text{C}_6\text{H}_6$ , are identical

Directions: Each of the questions or incomplete statements below is followed by five suggested answers or compilations. Select the one that is best in each case and then blacken the corresponding space on the answer sheet.

# 2008 Chemistry Ap Multiple Choice

**Harold S. Wechsler**

## **2008 Chemistry Ap Multiple Choice:**

**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.

**AP** Philip Michael Sadler, 2010 Draws together the most recent and rigorous research on the strengths and weaknesses of the Advanced Placement program. Examines closely the differences between AP and other high school courses as well as variations among AP courses. In depth studies gauge the impact of AP coursework on student performance in college. Finally

researchers examine the use of AP information in college admissions From publisher description [Status and Trends in the Education of Racial and Ethnic Groups \(2010\)](#) Susan Aud,2011-08 *Profiles of American Colleges -- 2008* Barron's Educational Series,2008-07-01 Up to date facts and figures on enrollments tuition and fees academic programs campus environment available financial aid and much more make the 28th edition of Profiles of American Colleges America's most authoritative data source for college bound high school students their parents and high school guidance counselors More than 1 650 accredited four year colleges are profiled An interactive CD ROM enclosed with the directory guides students to specific schools when they enter details describing their personal academic plans and aptitudes In addition to the above cited information each college profile gives details on Admission requirements Library and computer facilities Admissions procedures for freshmen Campus safety and security Thumbnail descriptions of faculty Requirements for a degree Athletic facilities Extracurricular activities E mail addresses College fax numbers and web sites Admissions Contacts and much more Schools are rated according to Barron's well known competitiveness scale from Noncompetitive to Most Competitive Unlike some other publications Barron's refrains from the unreliable practice of ranking colleges on a first through last basis The book's tinted pages section presents a quick reference Index of College Majors that lists all available major study programs at each school Also profiled are many excellent colleges in Canada and several other countries as well as brief profiles of religious colleges and American colleges based in foreign countries **[McGraw-Hill's SAT, 2008 Edition book only](#)**

Christopher Black,Mark Anestis,2007-06-19 We Want to Help You Succeed on the SAT We've put all of our proven expertise into McGraw Hill's SAT to make sure you're ready for this difficult exam With this book you'll get essential skill building techniques and strategies developed by a team of renowned test prep tutors Their innovative teaching methods and expert coaching will help you master every question type You'll also get vital access to hundreds of practice problems model SAT essays 5 full length practice tests and all the facts about the current exam With McGraw Hill's SAT we'll guide you step by step through your preparation program and give you the tools you need to succeed Inside you'll find 5 full length practice SATs 20 model essays to show you exactly what the graders are looking for Hundreds of sample questions with explanations Strategies to help you answer every type of SAT question Diagnostic techniques to help you create your most effective study plan Online help including practice SATs test taking tips and more **[The Qualified Student](#)** Harold S.

Wechsler,2017-09-29 In The Qualified Student Harold S Wechsler focuses on methods of student selection used by institutions of higher education in the United States More specifically he discusses the way that college and university reformers employed those methods to introduce higher education into a broader cross section of America by extending access to an increased number of students from nontraditional backgrounds Implicit in much of this book is an underlying social and ethical question How legitimate was and is higher education's regulation of social mobility Public concern over colleges and universities practices became inevitable once they became regulators between social classes The challenging of

colleges admissions policies in the courts augments similar concerns that have been present in legislatures for decades The volume is divided into three main sections Prerequisites Columbia and the Selective Function and Implications It focuses mainly on four universities The University of Michigan Columbia University the University of Chicago and the City University of New York Wechsler maintains that unlike other universities these institutions were pacesetters they did not adopt a new policy simply because some other college had already adopted it A new introduction brings the book originally published in 1977 up to date and demonstrates its continuing importance in today s academic world of selective admissions

**The Science Teacher** ,2009    **Library Literature & Information Science** ,2009 An index to library and information science

literature    **Subject Guide to Books in Print** ,1997    **Science** John Michels (Journalist),2010    **Michigan**

**Postsecondary Handbook** ,2007    *ADEA Official Guide to Dental Schools* ,2003    **Choice** ,2009    *McGraw-Hill's SAT, 2010 Edition* Christopher Black,Mark Anestis,2009-06-05

We want to help you succeed on the SAT We ve put all of our proven expertise into McGraw Hill s SAT to make sure you re ready for this difficult exam With this book you ll get essential skill building techniques and strategies developed by a team of renowned test prep tutors Their innovative teaching methods and expert coaching will help you master every question type With McGraw Hill s SAT we ll guide you step by step through your preparation program and give you the tools you need to succeed McGraw Hill s SAT gives you 5 full length practice SATs in the book 1 full length practice SAT test online 20 model essays to show you exactly what the graders are looking for Hundreds of samples questions with explanations Demonstrations of how to apply test taking strategies Diagnostic techniques to help you create your most effective study plan Online help including practice SATs test taking tips and more SAT is a registered trademark of the College Entrance Examination Board which was not involved in the production of and does not endorse this product    [Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards](#) ,2009    *General Catalog -- University of California, Santa Cruz* University of California, Santa Cruz,2008    *Occupational outlook handbook, 2010-11 (Paperback)* ,1990

**The Noisy Brain** Edmund T. Rolls,Gustavo Deco,2010-01-28 The activity of neurons in the brain is noisy in that the neuronal firing times are random for a given mean rate The Noisy Brain shows that this is fundamental to understanding many aspects of brain function including probabilistic decision making perception memory recall short term memory attention and even creativity There are many applications too of this understanding to for example memory and attentional disorders aging schizophrenia and obsessive compulsive disorder    [Dissertation Abstracts International](#) ,2009

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