

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

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

Questions 4–7

- a. $1s^2 2s^2 2p^5 3s^2 3p^5$
b. $1s^2 2s^2 2p^6 3s^2 3p^6$
c. $1s^2 2s^2 2p^6 2d^{10} 3s^2 3p^6$
d. $1s^2 2s^2 2p^6 3s^2 3p^6 3d^5$
e. $1s^2 2s^2 2p^6 3s^2 3p^6 3d^3 4s^2$

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

Questions 8–10

- a. a solution with a pH less than 7 that is not a buffer solution
b. a buffer solution with a pH between 4 and 7
c. a buffer solution with a pH between 7 and 10
d. a solution with a pH greater than 7 that is not a buffer solution
e. a solution with a pH of 7

(Ionization constants:



- A solution prepared to be initially 1 M in NaCl and 1 M in HCl.
- A solution prepared to be initially 1 M in Na_2CO_3 and 1 M in CH_3COONa
- A solution prepared to be initially 0.5 M in CH_3COOH and 1 M in CH_3COONa

Questions 11–14

- a. hydrogen bonding
b. hybridization
c. ionic bonding
d. resonance
e. van der Waals forces (London dispersion forces)

- Is used to explain why iodine molecules are held together in the solid state
- Is used to explain why the boiling point of HF is greater than the boiling point of HBr
- Is used to explain the fact that the four bonds in methane are equivalent
- Is used to explain the fact that the carbon-to-carbon bonds in benzene, C_6H_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.

1989 Ap Chemistry Multiple Choice

Howard Wainer



1989 Ap Chemistry Multiple Choice:

Understanding Psychological Processes that Underlie Test Takers' Choices of Constructed Response Items Xiang Bo Wang,1999 **Guiding Conceptions and Assessment Principles for the Praxis Series** Carol Anne Dwyer, Lawrence J. Stricker, Nicholas T. Longford, Paul W. Holland, Rebecca Zwick, Xiang-Bo Wang, 1993 *The Relationship Between Item Format and Cognitive Processes in Wide-scale Assessment of Mathematics* Diane R. Garavaglia, 2001 The Cumulative Book Index ,1990 A world list of books in the English language **Uneducated Guesses** Howard Wainer, 2011-08-28 What statistical evidence shows us about our misguided educational policies Uneducated Guesses challenges everything our policymakers thought they knew about education and education reform from how to close the achievement gap in public schools to admission standards for top universities In this explosive book Howard Wainer uses statistical evidence to show why some of the most widely held beliefs in education today and the policies that have resulted are wrong He shows why colleges that make the SAT optional for applicants end up with underperforming students and inflated national rankings and why the push to substitute achievement tests for aptitude tests makes no sense Wainer challenges the thinking behind the enormous rise of advanced placement courses in high schools and demonstrates why assessing teachers based on how well their students perform on tests a central pillar of recent education reforms is woefully misguided He explains why college rankings are often lacking in hard evidence why essay questions on tests disadvantage women why the most grievous errors in education testing are not made by testing organizations and much more No one concerned about seeing our children achieve their full potential can afford to ignore this book With forceful storytelling wry insight and a wealth of real world examples Uneducated Guesses exposes today s educational policies to the light of empirical evidence and offers solutions for fairer and more viable future policies **On Giving Test Takers a Choice Among Constructive Response Times** Xiang Bo Wang, 1999 **Books in Print** ,1991 **How to Prepare for the AP Chemistry** Neil D. Jespersen, Neil Jespersen, PH. D., 1999-02 This manual offers two diagnostic exams to help students pinpoint their strengths and weaknesses plus three full length practice exams closely modeled on actual AP chemistry exams *Energy Research Abstracts* ,1990

Microorganisms to Combat Pollution E. Rosenberg, 2012-12-06 This volume contains material first presented at an international workshop on the Use of Microorganisms to Combat Pollution held in Israel May 10 18 1992 The workshop was sponsored by the Bat Sheva de Rothschild Foundation for the Advancement of Science and included microbiologists biochemists and geneticists from universities environmental agencies and the military Each of the contributors to this volume is an acknowledged expert on the treatment of one or more types of pollution using microorganisms or their enzymes This book differs from most published symposia proceedings in the breadth of coverage of each subject Most of the chapters are divided into three parts a A general presentation of the source and toxicity of the pollutant b a review of the current state of the science on the biodegradation of that pollutant and c the authors unique research experiences on the problem In several

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LORENTE,2000-12-14 **Current Index to Journals in Education** ,1990 *Protein Kinases in Blood Cell Function*

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Bruno,A.L. Burlingame,2016-06-13 *TRAC Trends in Analytical Chemistry* Volume 11 presents relevant topics in global analytical chemistry research This book discusses the fundamental principle of competitive immunoassays Organized into 27 chapters this volume begins with an overview of the general and important contributions relating to the presentation of forensic evidence to courts of law This text then discusses the importance of the analysis of scanned measuring quantities Other chapters consider the advantages as well as the drawbacks of coupled chromatographic methods This book discusses as well the status of analytical chemistry within the broader scientific arena as a practical rather than fundamentally oriented discipline The final chapter deals with the properly functioning process control system in manufacturing insulin by reversed phase high performance liquid chromatography RP HPLC This book is a valuable resource for analytical organic clinical and regulatory chemists Electrochemists scientists students engineers researcher workers and other practitioners will also find this book extremely useful

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

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