

## Analytical Chemistry

**PART 1. MULTIPLE CHOICE:** Choose the letter that corresponds to the **BEST** answer. Write **E** when the answer is **NOT** in the choices. (23 pts)

### 1. Transfer of electrons from one molecule to another

2. What is the mole ratio of  $\text{Ce}^{IV}$  to  $\text{NO}_2$  for the oxidation of nitrite to nitrate using  $\text{Ce}^{III}$  in the presence of an acid?



a. 1:2  
b. 2:1  
c. 1:1  
d. 2:2

3. How many mole(s) of electron (are) produced in the oxidation of sodium stannite ( $\text{Na}_2\text{SnO}_3$ ) to  $\text{SnO}_4^{2-}$  and  $\text{Na}^+$  under acidic conditions?

4. Ascorbic acid ( $\text{H}_2\text{O}_2$ ) was added in the determination of the dissolved oxygen in water samples to remove interferences caused by the presence of white blood.

- a. chloride
- b. fluoride
- c. nitrite
- d. nitrate

3. Which of the following numbers does not end in 3?

- I. Prepared  $\text{KMnO}_4$  solutions should be stored in amber bottles
- II.  $\text{KMnO}_4$  solutions are boiled to remove  $\text{CO}_2$  which makes the solution basic
- III.  $\text{Mn}(\text{II})$  is the product of the degradation of  $\text{KMnO}_4$ .
- IV.  $\text{KMnO}_4$  solutions are filtered to remove manganese(IV) oxide

6. What is the oxidation state of carbon in acrylic acid?

|       |       |
|-------|-------|
| a. +2 | c. +6 |
| b. +4 | d. +7 |

7. The complex formed between Cu(II) and 1,10-phenanthroline has a molar absorptivity of 7000  $L \cdot cm^{-1} \cdot mol^{-1}$  at 435 nm, the wavelength of maximum absorption. What is the absorbance of a  $6.17 \times 10^{-4}$  M solution of the complex when measured in a 1.00-cm cell at 435 nm?

a. 0.0401      b. 0.0472      c. 0.401      d. 0.472

B. In the presence of iodine, thiourea ion is oxidized quantitatively to tetraiodoanion. What is the chemical formula of tetraiodoanion and

a.  $5\text{O}_2$       b.  $5\text{O}_3$       c.  $5\text{O}_2$       d.  $5\text{O}_3$

9. In Winter months, the fog is produced from

c. oxidation of  $\text{I}^-$  to  $\text{I}_2$   
 d. reduction of  $\text{I}_2$  to  $\text{I}^-$   
 e. oxidation of  $\text{MnO}_4^-$  to  $\text{MnO}_4^{2-}$   
 f. reduction of  $\text{MnO}_4^-$  to  $\text{MnO}_4^{2-}$

10. A component of a UV-Vis-spectrophotometer that restricts the radiation being measured to a narrow band that is absorbed or emitted by the samples.

|                 |                        |
|-----------------|------------------------|
| a. light source | c. radioactive tracer  |
| b. detector     | d. microbeam selection |

11. Component of a UV-Vis instrument that operates by blocking or absorbing all but a restricted band of radiation.

- a. light source
- b. detector
- c. radiation filter
- d. wavelength selector

12. Oxidation of  $\text{V(OH)}_3$  using permanganate or cerium at standard solution produces  $\text{VO}_2^+$ . what is the oxidation state of vanadium in  $\text{V(OH)}_3$ ?

# Analytical Chemistry Final Exam Multiple Choice

**Arturo Cuomo**

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Tests Richard C. Sweetland,Daniel J. Keyser,1983 Descriptions of over 3000 tests in English intended as a guide for psychologists educators and other personnel who need test information to meet their assessment needs Topical arrangement under 3 main sections of psychology education and business Each entry gives test name associated personal names intended age group purpose description time range scoring cost and publisher Indexes by test titles authors publishers visually impaired tests and scoring services

CliffsNotes AP Chemistry Bobrow Test Preparation Services,2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter s end Two full length practice tests with detailed answer explanations are included in the book

**ICONS 2020** Arif Zainudin ,Yoga Prihatin,Suyono ,Purwo Susongko,Taufiqullah ,2021-01-26 Proceedings of the First International Conference on Social Science Humanities Education and Society

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*BENEFITS OF ICT-BASED LEARNING STRATEGIES FOR STUDENTS* MANISHA KULKARNI, *Cracking the GRE Chemistry Test* ,2002 The Princeton Review realizes that acing the GRE Chemistry Test is very different from getting straight A s in school We don t try to teach you everything there is to know about chemistry only the techniques you ll need to score higher on the test There s a big difference In Cracking the GRE Chemistry Test we ll teach you how to think like the test writers and Eliminate answer choices that look right but are planted to fool you Raise your score by focusing on the material most likely to appear on the test Test your knowledge with review questions for each chemistry topic covered This book includes one full length practice GRE Chemistry Test All of our practice questions are like the ones you ll see on the actual GRE Chemistry Test and we fully explain every solution

**Resources in Education** ,1982 **Kaplan GRE**

**Exam 2008 Comprehensive Program** Kaplan,2007-07-03 Students who turn to Kaplan can depend on the most accurate information on the GRE test change As always Kaplans comprehensive guides combine proven score raising strategies with the latest technology to help students exceed their expectations

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information available Students don t need to relearn the entire histories of their fields just what they need to know to earn high scores on the exams Each guide includes one full length practice exam complete with comprehensive explanations for every solution

5 Steps to a 5 AP Chemistry, 2010-2011 Edition John Moore,Richard H. Langley,2010-01-01 A Perfect Plan

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Test Taking Strategies & Study Skills for the Utterly Confused Laurie Rozakis, 2002-09-13 From pulling all nighters to memorizing rote facts today's students have shown that they have no organized logical or sequential understanding of how to study or prepare for tests Test Taking Strategies Study Skills for the Utterly Confused arms students of all ages with the skills they need to pass their tests with flying colors The perfect guide for all the major standardized tests including SAT GMAT Series 7 LSAT MCAT and more this skillbuilding resource shows students career changers and business professionals how to make the most of their study time how to deal with study and test panic and how to take tests with optimal confidence and success *Modeling and Simulation*, 1991 *The ... Mental Measurements Yearbook* Oscar Krisen Buros, 1941 **Current Index to Journals in Education**, 1982 Science John Michels (Journalist), 2008 **The Journal of Classroom Interaction**, 1985 **The ETS Test Collection Catalog**, 1995-06-14 **Medical College Admission Test** David Reuben Turner, 1977 *5 Steps to a 5: AP Chemistry 2024* John T.

Moore, Richard H. Langley, 2023-07-31 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Chemistry is more than a review guide it's a system that has helped thousands of students walk into test day feeling prepared and confident Everything You Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer explanations Comprehensive overview of all test topics Proven strategies from seasoned AP educators Study on the Go All instructional content in digital format for both computers and mobile devices Interactive practice tests with answer explanations A self guided personalized study plan with daily goals powerful analytics flashcards games and more A Great In class Supplement 5 Steps is an ideal companion to your main AP text Includes an AP Chemistry Teacher's Manual that offers excellent guidance to educators for better use of the 5 Steps resources

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