

Analytical Chemistry
3rd Long Exam

PART I. MULTIPLE CHOICE. Choose the letter that corresponds to the BEST answer. Write E when the answer is NOT in the choices. (25 pts)

1. Transfer of electrons from one reactant to another

- a. precipitation rxn c. redox rxn
b. half rxn d. neutralization rxn

2. What is the mole ratio of $\text{Ce}(\text{IV})$ to NO_2^- for the oxidation of nitrite to nitrate using Ce^{4+} in the presence of an acid:



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

3. How many mole(s) of electron is(are) produced in the oxidation of sodium bisulfate (NaHSO_4) to BiO^+ and H^+ under acidic conditions?

- a. 1 c. 3
b. 2 d. 4

4. Azide (N_3^-) was added in the determination of the dissolved oxygen in water sample to remove interferences caused by the presence of what ion?

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

5. Which of the following statements is(are) true?

- I. Prepared KMnO_4 solutions should be stored in amber bottles
II. KMnO_4 solutions are boiled to remove CO_2 which makes the solution basic
III. $\text{Mn}(\text{II})$ is the product of the degradation of KMnO_4
IV. KMnO_4 solutions are filtered to remove manganese(IV) oxide

- a. I only c. I and IV
b. I and II d. I, II and III

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

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

7. The complex formed between $\text{Cu}(\text{I})$ and 1,10-phenanthroline has a molar absorptivity of $7000 \text{ L cm}^{-1} \text{ mol}^{-1}$ at 435 nm, the wavelength of maximum absorption. What is the absorbance of a $5.17 \times 10^{-3} \text{ M}$ solution of the complex when measured in a 1.00-cm cell at 435 nm?

- a. 0.0431 c. 0.432
b. 0.0432 d. 0.431

8. In the presence of iodine, thiosulfate ion is oxidized quantitatively to tetrathionate ion. What is the chemical formula of tetrathionate ion?

- a. $\text{S}_4\text{O}_7^{2-}$ c. $\text{S}_4\text{O}_6^{2-}$
b. $\text{S}_4\text{O}_5^{2-}$ d. $\text{S}_4\text{O}_8^{2-}$

9. In Winkler titration, the flocc is produced from

- a. oxidation of I^- to I_2 c. reduction of I^- to I_2
b. oxidation of $\text{Mn}(\text{II})$ to $\text{Mn}(\text{III})$ d. reduction of $\text{Mn}(\text{II})$ to $\text{Mn}(\text{III})$

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 analyte.

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

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

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

12. Oxidation of VO^{2+} using permanganate or cerium as standard solution produces $\text{VO}(\text{OH})_2^{+}$, what is the oxidation state of vanadium in $\text{VO}(\text{OH})_2^{+}$?

Analytical Chemistry Exam 1 Multiple Choice

Gary S Thorpe



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Table of Contents Analytical Chemistry Exam 1 Multiple Choice

1. Understanding the eBook Analytical Chemistry Exam 1 Multiple Choice
 - The Rise of Digital Reading Analytical Chemistry Exam 1 Multiple Choice
 - Advantages of eBooks Over Traditional Books
2. Identifying Analytical Chemistry Exam 1 Multiple Choice
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Analytical Chemistry Exam 1 Multiple Choice
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analytical Chemistry Exam 1 Multiple Choice
 - Personalized Recommendations
 - Analytical Chemistry Exam 1 Multiple Choice User Reviews and Ratings
 - Analytical Chemistry Exam 1 Multiple Choice and Bestseller Lists
5. Accessing Analytical Chemistry Exam 1 Multiple Choice Free and Paid eBooks
 - Analytical Chemistry Exam 1 Multiple Choice Public Domain eBooks
 - Analytical Chemistry Exam 1 Multiple Choice eBook Subscription Services
 - Analytical Chemistry Exam 1 Multiple Choice Budget-Friendly Options
6. Navigating Analytical Chemistry Exam 1 Multiple Choice eBook Formats
 - ePub, PDF, MOBI, and More
 - Analytical Chemistry Exam 1 Multiple Choice Compatibility with Devices
 - Analytical Chemistry Exam 1 Multiple Choice Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analytical Chemistry Exam 1 Multiple Choice
 - Highlighting and Note-Taking Analytical Chemistry Exam 1 Multiple Choice
 - Interactive Elements Analytical Chemistry Exam 1 Multiple Choice
8. Staying Engaged with Analytical Chemistry Exam 1 Multiple Choice

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Analytical Chemistry Exam 1 Multiple Choice
- 9. Balancing eBooks and Physical Books Analytical Chemistry Exam 1 Multiple Choice
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analytical Chemistry Exam 1 Multiple Choice
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Analytical Chemistry Exam 1 Multiple Choice
 - Setting Reading Goals Analytical Chemistry Exam 1 Multiple Choice
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Analytical Chemistry Exam 1 Multiple Choice
 - Fact-Checking eBook Content of Analytical Chemistry Exam 1 Multiple Choice
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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