

Analytical Chemistry
3rd Long Exam

PART I. MULTIPLE CHOICE. Choose the letter that corresponds to the BEST answer. Write E when the answer is NONE 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 Multiple Choice

Arshad Iqbal



Analytical Chemistry Exam Multiple Choice:

Analytical Chemistry Exam Multiple Choice: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Analytical Chemistry Exam Multiple Choice : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Analytical Chemistry Exam Multiple Choice

1. Understanding the eBook Analytical Chemistry Exam Multiple Choice
 - The Rise of Digital Reading Analytical Chemistry Exam Multiple Choice
 - Advantages of eBooks Over Traditional Books
2. Identifying Analytical Chemistry Exam 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 Multiple Choice
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analytical Chemistry Exam Multiple Choice
 - Personalized Recommendations
 - Analytical Chemistry Exam Multiple Choice User Reviews and Ratings
 - Analytical Chemistry Exam Multiple Choice and Bestseller Lists
5. Accessing Analytical Chemistry Exam Multiple Choice Free and Paid eBooks
 - Analytical Chemistry Exam Multiple Choice Public Domain eBooks
 - Analytical Chemistry Exam Multiple Choice eBook Subscription Services
 - Analytical Chemistry Exam Multiple Choice Budget-Friendly Options
6. Navigating Analytical Chemistry Exam Multiple Choice eBook Formats
 - ePub, PDF, MOBI, and More
 - Analytical Chemistry Exam Multiple Choice Compatibility with Devices
 - Analytical Chemistry Exam Multiple Choice Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analytical Chemistry Exam Multiple Choice
 - Highlighting and Note-Taking Analytical Chemistry Exam Multiple Choice
 - Interactive Elements Analytical Chemistry Exam Multiple Choice
8. Staying Engaged with Analytical Chemistry Exam Multiple Choice

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Analytical Chemistry Exam Multiple Choice
- 9. Balancing eBooks and Physical Books Analytical Chemistry Exam Multiple Choice
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analytical Chemistry Exam Multiple Choice
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Analytical Chemistry Exam Multiple Choice
 - Setting Reading Goals Analytical Chemistry Exam Multiple Choice
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Analytical Chemistry Exam Multiple Choice
 - Fact-Checking eBook Content of Analytical Chemistry Exam 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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