

Analytical Chemistry  
3<sup>rd</sup> Long Exam

**PART I. MULTIPLE CHOICE.** Choose the letter that corresponds to the **BEST** answer. Write [ ] when the answer is **NOT** in the choices. (23 pts)

1. Transfer of electrons from one reactant to another

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

2. What is the mole ratio of  $\text{Ce}(\text{IV})$  to  $\text{NO}_2^-$  for the oxidation of nitrite to nitrate using  $\text{Ce}^{4+}$  in the presence of an acid:



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

3. How many mole(s) of electron is(are) produced in the oxidation of sodium bismuthate ( $\text{NaBiO}_3$ ) to  $\text{BiO}^+$  and  $\text{H}_3\text{O}^+$  under acidic conditions?

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

4. Azide ( $\text{N}_3^-$ ) was added in the determination of the dissolved oxygen in water sample to remove interferences caused by the presence of what ion?

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

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

- 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

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

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

- a. +2
- b. +4
- c. +6
- 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  $5.17 \times 10^{-4} \text{ M}$  solution of the complex when measured in a 1.00-cm cell at 435 nm?

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

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

- a.  $\text{S}_2\text{O}_7^{2-}$
- b.  $\text{S}_4\text{O}_6^{2-}$
- c.  $\text{S}_2\text{O}_8^{2-}$
- d.  $\text{S}_4\text{O}_8^{2-}$

9. In Winkler titration, the flocc is produced from

- a. oxidation of  $\text{I}^-$  to  $\text{I}_2$
- b. oxidation of  $\text{Mn}(\text{II})$  to  $\text{Mn}(\text{III})$
- c. reduction of  $\text{I}^-$  to  $\text{I}_2$
- 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
- b. detector
- c. radiation filter
- 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
- b. detector
- c. radiation filter
- d. wavelength selector

12. Oxidation of  $\text{VO}^{2+}$  using permanganate or cerium as standard solution produces  $\text{V}(\text{OH})_5^{+2}$ , what is the oxidation state of vanadium in  $\text{V}(\text{OH})_5^{+2}$ ?

# Analytical Chemistry Exam Questions

**Arshad Iqbal**



## **Analytical Chemistry Exam Questions:**

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**Principles and Practice of Analytical Chemistry** F. W. Fifeild,David Kealey,2000-09-05 Over more than two decades this book has established itself as the first choice for growing numbers of students and practising analysts who require a well written and concise overview of the principles and practice of analytical chemistry Recurring themes are improvement in medicine and the environment the I T revolution and its continuing impacts on both analytical methodology and data handling The successive editions of Principles and Practice of Analytical Chemistry have kept pace with the associated

developments in the subject Significant changes encompass strengthening of the coverage of data handling together with new material covering rapidly developing subject areas of molecular spectrometry atomic spectrometry and separation techniques Answers to the self learning problems and exercises are also included All sections of the book have been fully reviewed and updated as appropriate The new edition of the book continues to provide a sound and broad base for the study of analytical chemistry by undergraduate and postgraduate students and to be a useful resource for practising analysts seeking a summary of the principles of techniques and methods

*Analytical Chemistry* Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the Berri Lambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

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**TRAC: Trends in Analytical Chemistry** U A Th Brinkman, J. G. Dorsey, J R Durig, 2013-09-24 TRAC Trends in Analytical Chemistry Volume 7 provides information pertinent to the trends in the field of analytical chemistry This book discusses a variety of topics related to analytical chemistry including biomolecular mass spectroscopy affinity chromatography electrochemical detection nucleosides and protein sequencing Organized into 63 parts encompassing 158



chapters this volume begins with an overview of the significance of quality and productivity in the analytical laboratory This text then presents a comprehensive review on alcohol dehydrogenases immobilization and applications in analysis and synthesis Other chapters consider the various tests for determining the excellence of quantitative assays available for analysts to utilize for method validation This book discusses as well the primary challenge of neuropharmacologists to relate physiological functions to the many ligand binding sites identified in brain tissue The final chapter deals with the fundamentals and applications of biosensors This book is a valuable resource for analytical chemists chemical engineers clinical chemists neuropharmacologists and scientists

**Understanding Advanced Organic And Analytical Chemistry: The Learner's Approach (Revised Edition)** Kim Seng Chan, Jeanne Tan, 2016-09-29 This revised edition has been updated to meet the minimum requirements of the new Singapore GCE A level syllabus that would be implemented in the year 2016

Nevertheless this book is also highly relevant to students who are studying chemistry for other examination boards In addition the authors have also included more Q A to help students better understand and appreciate the chemical concepts that they are mastering

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