

CHEM 151 – Quiz #4
Thermo, Redox, and Electrochem
 December 4, 2018

1. Consider this unbalanced reaction at 25 °C:

Zinc solid reacts with a solution containing nitrate ion, to form zinc ion and nitrogen monoxide gas.

The standard reduction potentials (E°) are:

Nitrogen half-reaction: $+0.957\text{ V}$ red
 Zinc half-reaction: -0.762 V ox

a. (2 pts) Using chemical formulas, write the unbalanced reaction given above.



b. (5 pts) Balance the reaction in an acidic solution using the half-reaction method practiced in class (include phases in your final balanced reaction).



c. (3 pts) i) assign oxidation numbers to all atoms in your final balanced reaction, ii) calculate the change of oxidation state for the two atoms that underwent change, and identify if each atom underwent oxidation or reduction, and iii) label the oxidizing and reducing agents (from the reactants only).

i) see above

ii) $\text{Zn} \xrightarrow{\text{iii)}} 0 \rightarrow +2$, oxidation $\Rightarrow \text{Zn(s)} = \text{reducing agent}$

$\text{N} \xrightarrow{\text{iii)}} +5 \rightarrow +2$, reduction $\Rightarrow \text{NO}_3^-(\text{aq}) = \text{oxidizing agent}$

Answers For Chemistry 151 Lab

Valparaiso University



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Finding Answers in Science and Technology Alice Lefler Primack,1984 *The Impact of the Laboratory and Technology on Learning and Teaching Science K-16* Dennis W. Sunal,Emmett L. Wright,Cheryl Sundberg,2008-02-01 The Impact of the Laboratory and Technology on K 12 Science Learning and Teaching examines the development use and influence of active laboratory experiences and the integration of technology in science teaching This examination involves the viewpoints of policymakers researchers and teachers that are expressed through research involving original documents interviews analysis and synthesis of the literature case studies narrative studies observations of teachers and students and assessment of student learning outcomes Volume 3 of the series Research in Science Education addresses the needs of various constituencies including teachers administrators higher education science and science education faculty policymakers governmental and professional agencies and the business community The guiding theme of this volume is the role of practical laboratory work and the use of technology in science learning and teaching K 16 The volume investigates issues and concerns related to this theme through various perspectives addressing design research professional practice and evaluation Beginning with definitions the historical evolution and policy guiding these learning experiences are explored from several viewpoints Effective design and implementation of laboratory work and technology experiences is examined for elementary and high school classrooms as well as for undergraduate science laboratories informal settings and science education courses and programs In general recent research provides evidence that students do benefit from inquirybased laboratory and technology experiences that are integrated with classroom science curricula The impact and status of laboratory and technology experiences is addressed by exploring specific strategies in a variety of scientific fields and courses The chapters outline and describe in detail researchbased best practices for a variety of settings The Chemical News and Journal of Physical Science ,1894 **Circular[s] of Information** United States. Bureau of Education,United States. Office of Education,1880 **Chemical news and Journal of physical science** ,1867 Chemical News and Journal of Industrial Science ,1865 **Lab World** ,1975 *Clinical Chemistry - E-Book* Donna Larson,2015-12-17 Gain a clear understanding of pathophysiology and lab testing Clinical Chemistry Fundamentals and Laboratory Techniques prepares you for success as a medical lab technician by simplifying complex chemistry concepts and lab essentials including immunoassays molecular diagnostics and quality control A pathophysiologic approach covers diseases that are commonly diagnosed through chemical tests broken down by body system and category such as respiratory gastrointestinal and cardiovascular conditions Written by clinical chemistry educator Donna Larson and a team of expert contributors this full color book is ideal for readers who may have minimal knowledge of chemistry and are learning laboratory science for the first time Full color illustrations and design simplify complex concepts and make learning easier by highlighting important material Case studies help you apply information to real life scenarios Pathophysiology and Analytes section includes

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Science Educator's Guide to Laboratory Assessment Rodney L. Doran,2002 The book opens with an up to date discussion of assessment theory research and uses Then comes a wealth of sample assessment activities in biology chemistry physics and Earth science Keyed to the National Science Education Standards the activities include reproducible task sheets and scoring rubrics All are ideal for helping students reflect on their own learning during science lab

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