

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

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

Answers For Chemistry 151 Lab

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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

Announcements for the Sessions of ... Catalogue for the ... Academic Year Valparaiso University, 1955 **Chemical News**, 1863 **Food and Drug Administration Procedures for the Selection of Laboratory Sites** United States. Congress. House. Government Operations, 1967 **Food and Drug Administration Procedures for the Selection of Laboratory Sites** United States. Congress. House. Committee on Government Operations. Intergovernmental Relations Subcommittee, 1967 Considers FDA procedure for selecting sites for laboratory facilities Focuses on the location of Laboratory No 2 in Beltsville Md

Illustrated Catalogue and Classified Book List of the Northwestern Library Association ... Northwestern Library Association, 1899 **The Chemical News and Journal of Industrial Science**, 1867 **General Register** University of Michigan, 1953 Announcements for the following year included in some vols **University of Michigan Official Publication**, 1952 [NASA Technical Memorandum](#)

, 1991 **Chemical News and Journal of Industrial Science**, 1919 **Excel HSC Chemistry** Jim Stamell, 2011 ISBN 9781741252996 AUTHOR Jim Stamell RRP 39.95 PAGES 428 pp SPECIFICATION Softcover perfect bound 280 mm x 210 mm STATUS New edition PUBLICATION DATE April 2008 The EXCEL HSC Chemistry guide is directly linked to the syllabus with every single dot point of the HSC Chemistry syllabus appearing in the margin of the book You can write in the guide so your study is focused and your notes are structured This guide comes in a brand new format that makes even better use of your study time up to date coverage of the core topics plus 3 Option topics Industrial Chemistry Shipwrecks Corrosion and Conservation and Forensic Chemistry this guide is organised just like the HSC syllabus so the students learn to section the theoretical part is under routine headings and the students section the practical part is under headings like First hand

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