

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) $\text{Zn} \xrightarrow{\text{iii)}} 0 \rightarrow +2$, 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

University of Michigan

The logo of the University of Michigan, featuring a red block letter 'M' with a white stylized 'U' and 'D' inside it.

Answers For Chemistry 151 Lab:

This book delves into Answers For Chemistry 151 Lab. Answers For Chemistry 151 Lab is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Answers For Chemistry 151 Lab, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Answers For Chemistry 151 Lab in Everyday Life
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