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| **WASHINGTON LATIN PUBLIC CHARTER SCHOOL**  **CHEMISTRY 2019-20**    **UNIT 5B QUIZ 1 - INTRODUCTION TO OXIDATION AND REDUCTION**  Answer all questions  Recommended time = 30 minutes  BON COURAGE!     |  |  |  |  | | --- | --- | --- | --- | |  | Name: |  |  | |  | Score for Q1 (open response) | /8 |  | |  | Score for Q2 – 6  (multiple choice) | /7 |  | |  | Bonus  (Submits quiz on time and in correct format) | /5 |  | |

**SECTION A – OPEN RESPONSE**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.** | Consider the following redox reaction: 2Mg + O2 🡪 2MgO | |  |
| (a) | What is meant by the term “redox reaction”? | 1 |
| (b) | What is meant by the term “oxidation”? | 1 |
| (c) | What is meant by the term “oxidizing agent”? | 1 |
| (d) | Which atom is oxidized in this reaction? | 1 |
| (e) | Write a half-equation to show the oxidation process in this reaction. | 2 |
| (f) | What is the oxidizing agent in this reaction? Explain your answer. | 2 |
| TOTAL | | 8 |

**SECTION B – MULTIPLE CHOICE**

Answer these questions on the separate answer sheet.

Read the questions and make a note of all five of your answers before clicking on the answer sheet.

|  |  |
| --- | --- |
| **Reaction V** | **H2 + l2 🡪 2Hl** |
| **Reaction W** | **Zn + 2HCl 🡪 ZnCl2 + H2** |
| **Reaction X** | **MgO + 2HCl 🡪 MgCl2 + H2O** |
| **Reaction Y** | **Zn + CuO 🡪 ZnO + Cu** |
| **Reaction Z** | **Sn2+ + 2Fe3+ 🡪 Sn4+ + 2Fe2+** |

|  |  |
| --- | --- |
| **1.** | In Reaction V, what is the charge on I in I2? |
| **2.** | In Reaction W, what is the charge on Zn in ZnCl2? |
| **3.** | In Reaction X, what is the charge on H in HCl? |
| **4.** | What is the oxidizing agent in Reaction Y? |
| **5.** | What is the reducing agent in Reaction Z? |
| **6.** | Which of the above reactions is not a redox reaction? |

|  |  |  |
| --- | --- | --- |
| **7.** | Which of the following is the correct half-equation to show the oxidation process in reaction Z? | |
|  | **A** | Sn2+ 🡪 Sn4+ + 2e- |
|  | **B** | Sn2+ + 2e- 🡪 Sn4+ |
|  | **C** | Fe3+ + e- 🡪 Fe2+ |
|  | **D** | Fe3+ 🡪 Fe2+ + e- |

[Here is the link to the answer sheet](https://docs.google.com/forms/d/e/1FAIpQLScjIgmpAfJSIS3x8lbaaMLYjGcsw_LtPwKE7YYsltyT-FMZ_A/viewform?usp=sf_link)

The exit ticket has been included in the answer sheet; there is no separate exit ticket for today’s lesson.