

WORKSHEET
CHEMISTRY FOR ENGINEERING STUDENTS, LECTURE 1
 CHEMISTRY OF METALS

ANSWERS KEY

QUESTION 1. CLASSIFY THE ELEMENTS OF PERIODIC TABLE INTO METALS AND NON-METALS.

1. Distinguish between metals and non-metals based on properties such as electrical conductivity, ductility, malleability, etc.
 - (a) Write the balanced chemical equation for the reaction of Cu with H_2SO_4 at room temperature.

$\text{Cu} + \text{H}_2\text{SO}_4 \rightarrow \text{CuSO}_4 + \text{H}_2$
 - (b) Explain the role of H_2SO_4 in the reaction of Cu with H_2SO_4 at room temperature.

$\text{Cu} + \text{H}_2\text{SO}_4 \rightarrow \text{CuSO}_4 + \text{H}_2$
 - (c) Describe the nature of the products formed in the reaction of Cu with H_2SO_4 at room temperature.

$\text{Cu} + \text{H}_2\text{SO}_4 \rightarrow \text{CuSO}_4 + \text{H}_2$

2. State the main properties of metals and non-metals. Give examples of metals and non-metals.
 - (a) Write the balanced chemical equation for the reaction of Fe with H_2SO_4 at room temperature.

$\text{Fe} + \text{H}_2\text{SO}_4 \rightarrow \text{FeSO}_4 + \text{H}_2$
 - (b) Explain the role of H_2SO_4 in the reaction of Fe with H_2SO_4 at room temperature.

$\text{Fe} + \text{H}_2\text{SO}_4 \rightarrow \text{FeSO}_4 + \text{H}_2$
 - (c) Describe the nature of the products formed in the reaction of Fe with H_2SO_4 at room temperature.

$\text{Fe} + \text{H}_2\text{SO}_4 \rightarrow \text{FeSO}_4 + \text{H}_2$

3. Distinguish between metals and non-metals based on properties such as electrical conductivity, ductility, malleability, etc.
 - (a) Write the balanced chemical equation for the reaction of Al with H_2SO_4 at room temperature.

$2\text{Al} + 3\text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + 3\text{H}_2$
 - (b) Explain the role of H_2SO_4 in the reaction of Al with H_2SO_4 at room temperature.

$2\text{Al} + 3\text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + 3\text{H}_2$
 - (c) Describe the nature of the products formed in the reaction of Al with H_2SO_4 at room temperature.

$2\text{Al} + 3\text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + 3\text{H}_2$

QUESTION 2. CLASSIFY THE ELEMENTS OF PERIODIC TABLE INTO METALS AND NON-METALS.

1. Distinguish between metals and non-metals based on properties such as electrical conductivity, ductility, malleability, etc.
 - (a) Write the balanced chemical equation for the reaction of Zn with H_2SO_4 at room temperature.

$\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$
 - (b) Explain the role of H_2SO_4 in the reaction of Zn with H_2SO_4 at room temperature.

$\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$
 - (c) Describe the nature of the products formed in the reaction of Zn with H_2SO_4 at room temperature.

$\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$

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Table of Contents Chem 21 Lab Answers

1. Understanding the eBook Chem 21 Lab Answers
 - The Rise of Digital Reading Chem 21 Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chem 21 Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chem 21 Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chem 21 Lab Answers
 - Personalized Recommendations

- Chem 21 Lab Answers User Reviews and Ratings
- Chem 21 Lab Answers and Bestseller Lists
- 5. Accessing Chem 21 Lab Answers Free and Paid eBooks
 - Chem 21 Lab Answers Public Domain eBooks
 - Chem 21 Lab Answers eBook Subscription Services
 - Chem 21 Lab Answers Budget-Friendly Options
- 6. Navigating Chem 21 Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chem 21 Lab Answers Compatibility with Devices
 - Chem 21 Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chem 21 Lab Answers
 - Highlighting and Note-Taking Chem 21 Lab Answers
 - Interactive Elements Chem 21 Lab Answers
- 8. Staying Engaged with Chem 21 Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chem 21 Lab Answers
- 9. Balancing eBooks and Physical Books Chem 21 Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chem 21 Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chem 21 Lab Answers
 - Setting Reading Goals Chem 21 Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chem 21 Lab Answers
 - Fact-Checking eBook Content of Chem 21 Lab Answers

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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