



Practice Worksheet on undefined

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Subject: Chemistry

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Long Answer Questions

1. Elaborate on the characteristic properties of acids when dissolved in water.
2. Describe the properties of bases when they are dissolved in water.
3. What is neutralization and explain the process in detail.
4. Define the pH scale and explain how it's used to determine the nature of substances.
5. What are indicators and how do they help in determining the nature of a substance?

Multiple Choice Questions

1. Which of the following is a characteristic property of acids?
 - a) Turn blue litmus red

- b) Turn red litmus blue
- c) Have a bitter taste
- d) Feel slippery

2. Which of the following is a characteristic property of bases?

- a) Sour taste
- b) Conduct electricity poorly
- c) Feel slippery
- d) Turn blue litmus to red

3. What is the pH range for acids?

- a) pH 7
- b) pH less than 7
- c) pH greater than 7
- d) pH 14

4. What is the name of the reaction between an acid and a base?

- a) Neutralization
- b) Oxidation
- c) Reduction
- d) Hydrolysis

5. Which of the following is a common indicator used to test for acidity and basicity?

- a) Methyl orange
- b) Phenolphthalein
- c) Litmus paper
- d) None of the above

Answer Key

Long Answer Questions - Expected Responses

1. Elaborate on the characteristic properties of acids when dissolved in water.

Expected Answer: Acids conduct electricity, turn blue litmus red, taste sour, neutralize bases, and liberate hydrogen with active metals.

2. Describe the properties of bases when they are dissolved in water.

Expected Answer: Bases conduct electricity, turn red litmus blue, feel slippery, and neutralize acids.

3. What is neutralization and explain the process in detail.

Expected Answer: The reaction between an acid and a base to produce salt and water is called neutralization.

4. Define the pH scale and explain how it's used to determine the nature of substances.

Expected Answer: pH scale is used to measure the acidity or basicity of a substance ranging from 0-14, where 0-7 is acidic and 7-14 is basic.

5. What are indicators and how do they help in determining the nature of a substance?

Expected Answer: Indicators such as litmus paper, phenolphthalein, and methyl orange change color depending on whether the substance is acidic or basic.

Multiple Choice Questions - Correct Answers

1. Which of the following is a characteristic property of acids?

Correct Answer: Turn blue litmus red

2. Which of the following is a characteristic property of bases?

Correct Answer: Feel slippery

3. What is the pH range for acids?

Correct Answer: pH less than 7

4. What is the name of the reaction between an acid and a base?

Correct Answer: Neutralization

5. Which of the following is a common indicator used to test for acidity and basicity?

Correct Answer: Litmus paper