Use with textbook pages 220-229.

## Acids and bases

Match the Term on the left with the best Descriptor on the right. Each Descriptor may be used only once.

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Term	Descriptor	
1acid 2base 3neutral 4pH scale 5corrosive 6pH indicator 7concentration of hydrogen	<ul> <li>A. a solution with a pH of 7</li> <li>B. can burn skin or eyes on contact</li> <li>C. number of hydrogen ions in a specific volume of solution</li> <li>D. a chemical compound that produces a solution with a pH less than 7</li> <li>E. a number scale for measuring how acidic or basic a solution is</li> <li>F. a chemical compound that produces a solution with a pH greater than 7</li> <li>G. a chemical that changes colour depending on the pH of the solution it is placed in</li> </ul>	

**8.** Which of the following describes acids?

1.	has a pH of less than 7
II.	can conduct electricity
III.	produce hydroxide ions when dissolved in solution

- A. I and II only
- **B.** I and III only
- **C.** II and III only
- **D.** I, II, and III

- **9.** What happens to the number of H<sup>+</sup> after H<sub>2</sub>SO<sub>4</sub> is added to water?
  - **A.** it increases
  - **B.** it decreases
  - **C.** it stays the same
- **10.** Which of the following is a base?
  - A. KCl
- C. LiOH
- **B.** HBr
- D. HNO,
- **11.** What is the name for HClO<sub>3</sub>?
  - A. chloric acid
  - B. chlorous acid
  - **C.** perchloric acid
  - **D.** hypochlorous acid
- **12.** What is the chemical formula for sulphurous acid?
  - A. HS
- C. H,SO,
- **B.** HSO<sub>4</sub>
- $\mathbf{D.} \ \mathrm{H_{2}SO_{4}}$
- **13.** What is the pH of a substance that causes methyl orange to turn yellow and methyl red to turn red?
  - **A.** 3
- **C.** 6.5
- **B.** 4.5
- **D.** 8

**14.** Which of the following would occur if eggs were tested with various pH indicators?

I.	indigo carmine turns blue
II.	phenolphthalein turns pink
III.	bromothymol blue turns blue

- **A.** I and II only
- **B.** I and III only
- **C.** II and III only
- **D.** I, II, and III