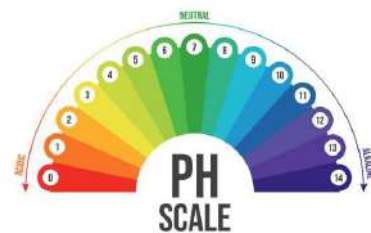


Name _____ Date _____



pH SCALE QUIZ

1. What is a pH scale?

2. What is an acid-base indicator?

3. Complete the table below that shows the colors of the listed common-acid-base indicators in acidic, neutral, and alkaline solutions.

Acid-base indicator	Acidic solution	Neutral solution	Alkaline solution
Litmus solution		Purple	
Phenolphthalein	Colorless		pink
Methyl Orange			

4. State two advantages that commercial base indicators such as litmus solutions have over plant extracts used as acid-base indicators.

5. An alkaline solution with phenolphthalein indicator added is left exposed to air. The color of the indicator eventually disappears. Explain this observation.

6. Use the information in the table below to answer the questions below.

Solution of the compound in water	pH value of the solution
A	1.6

B	5.6
C	12.7
D	3.6
E	9.4

a. How were the pH values obtained?

b. Which solutions are acidic?

c. Which solutions are basic?

d. Which solutions can neutralize solution A?

e. What would be the color of the following indicators when put in solution C?

I. Litmus solution: _____.

II. Methyl orange: _____.

III. Phenolphthalein: _____.

IV. Bromothymol blue: _____.