

ACIDS AND BASES QUIZ

1. Which of the following indicates an acidic solution?

- A) pH = 7.5 B) pH = 7 C) pH = 6.5
D) more than one correct response E) no correct response

2. Which of the following equations represents an acid-base neutralization reaction?

- A) $\text{H}_2\text{SO}_4 + \text{Zn} \rightarrow \text{ZnSO}_4 + \text{H}_2$ B) $\text{HNO}_3 + \text{KOH} \rightarrow \text{KNO}_3 + \text{H}_2\text{O}$
C) $\text{Ba}(\text{OH})_2 + \text{Na}_2\text{SO}_4 \rightarrow \text{BaSO}_4 + 2\text{NaOH}$ D) more than one correct response
E) none of the above

3. In which of the following pairs of substances are both members of the pair salts?

- A) NaCl and NaOH B) KNO_3 and K_2SO_4 C) H_3PO_4 and $(\text{NH}_4)_3\text{PO}_4$
D) more than one correct response E) none of the above

4. If the pH of a solution increases from 4.0 to 6.0, the hydronium ion concentration

- A) increases by a factor of 1.5. B) increases by a factor of 100.
C) decreases by a factor of 1.5. D) decreases by a factor of 100.

5. Which of the following statements concerning Arrhenius acids and Arrhenius bases is incorrect?

- A) In the pure state, Arrhenius acids are covalent compounds.
B) In the pure state, Arrhenius bases are ionic compounds.
C) Dissociation is the process by which Arrhenius acids produce H^+ ions in solution.
D) Arrhenius bases are also called oxides.

6. Highly basic solutions are:

- A) safe to handle B) sweet tasting
C) corrosive and reactive like highly acidic solutions D) corrosive but not reactive

7. When dissolved in water, sodium hydroxide (NaOH):

- A) turns phenolphthalein colourless. B) produces a high concentration of hydronium ions.
C) releases O^{2-} ions. D) produces a high concentration of hydroxide ions.
E) reacts with carbonates to produce a salt and carbon dioxide gas.

8. Bases taste:

- A) Salty B) Bitter C) Sweet D) Sour

9. The characteristic ion of acids is:

- A) carbonate ion CO_3^{2-} B) phosphate ion PO_4^{3-} C) hydrogen ion (H^+) D) hydroxide ion (OH^-)

10. Which of the following pH values indicates the strongest base?

- A) 4 B) 7 C) 11 D) 1

11. A positive test for a base occurs when:

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Arshad Iqbal



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