

CHAPTER-2 | Exploring Substances Acidic, Basic and Neutral

QUIZ
PART-06

1. A solution turns red litmus paper blue. Which solution, when added in excess, would reverse this change?
- A. Lime water
B. Baking soda
C. Vinegar
D. Common salt solution (C)

Explanation : Vinegar is acidic and will reverse the effect of a basic solution that turns red litmus blue.

2. If red litmus solution turns blue on adding it to solution A, what is the nature of solution A?
- A. Acidic
B. Neutral
C. Basic
D. Salty (C)

Explanation : Bases turn red litmus paper blue.

3. Turmeric solution turns red when added to solution B. What does this indicate?
- A. Solution B is acidic
B. Solution B is neutral
C. Solution B is basic
D. Solution B is salty (C)

Explanation : Turmeric turns red in the presence of basic substances.

4. Red rose extract turns green when added to solution C. What is the nature of solution C?
- A. Acidic
B. Basic
C. Neutral
D. Salty (B)

Explanation : Red rose indicator turns green in basic solutions.

5. Based on indicator tests, which sequence correctly represents the nature of solutions A, B, and C?
- A. Acidic, acidic, acidic
B. Neutral, basic, basic
C. Basic, basic, acidic
D. Basic, basic, basic (D)

Explanation : All three solutions show behaviour of basic substances with their respective indicators.

6. A liquid shows no change with red litmus, turns blue litmus red, and shows no change with turmeric. What is its nature?
- A. Basic
B. Neutral
C. Acidic
D. Salty (C)

Explanation : Acids turn blue litmus red and do not affect red litmus or turmeric.

7. Why are olfactory indicators useful for a blindfolded person?
- A. They show bright colours
B. They produce heat
C. They change odour
D. They dissolve easily (C)

Explanation : Olfactory indicators work by change in smell, not colour.

8. Which olfactory indicator can be used to test acidic and basic solutions?
- A. Turmeric
B. Red rose
C. Onion
D. Litmus (C)

Explanation : Onion is an olfactory indicator whose smell changes in basic solutions.

9. Which combination will produce a red colour while revealing a hidden message on paper?
- A. Soap solution + turmeric solution
B. Baking soda + red litmus
C. Lemon juice + red litmus
D. Soap solution + blue litmus (A)

Explanation : Soap solution is basic and turmeric turns red in basic substances.

10. Baking soda solution is used for writing and red litmus is sprayed. What colour will appear?
- A. Red
B. Yellow
C. Blue
D. Green (C)

Explanation : Baking soda is basic and turns red litmus blue.