

## CHAPTER-2 | Exploring Substances Acidic, Basic and Neutral

QUIZ  
PART-01

1. What is the main purpose of using litmus paper in experiments?

- A. To measure temperature
- B. To identify the nature of a substance
- C. To dissolve substances
- D. To change the smell of substances (B)

**Explanation :** Litmus paper is used as an indicator to test whether a substance is acidic, basic, or neutral.

2. Which colour change shows that a substance is acidic?

- A. Blue litmus turns red
- B. Red litmus turns blue
- C. Both litmus papers remain unchanged
- D. Both litmus papers turn green (A)

**Explanation :** Acids change blue litmus paper to red.

3. Which colour change indicates a basic substance?

- A. Blue litmus turns red
- B. Red litmus turns blue
- C. Blue litmus remains blue
- D. Red litmus remains red (B)

**Explanation :** Bases turn red litmus paper blue.

4. Which of the following samples was included in Activity-1 for testing?

- A. Milk
- B. Oil
- C. Kerosene
- D. Lemon juice (D)

**Explanation :** Lemon juice is one of the samples collected for testing with litmus paper.

5. What happens when an acidic substance is tested with red litmus paper?

- A. It turns blue
- B. It turns green
- C. It remains red
- D. It becomes colourless (C)

**Explanation :** Acids do not affect red litmus paper, so it remains red.

6. Which type of substance does NOT change the colour of either red or blue litmus paper?

- A. Acidic
- B. Neutral
- C. Basic
- D. Strong base (B)

**Explanation :** Neutral substances do not change the colour of either red or blue litmus paper.

7. Which solution listed in the activity is likely to be basic?

- A. Vinegar
- B. Amla juice
- C. Soap solution
- D. Tamarind water (C)

**Explanation :** Soap solution is basic and turns red litmus paper blue.

8. Vinegar shows which effect on litmus paper?

- A. Turns red litmus blue
- B. Turns blue litmus red
- C. Does not change any litmus
- D. Changes both litmus papers (B)

**Explanation :** Vinegar is acidic and turns blue litmus paper red.

9. What is an indicator?

- A. A substance used for cleaning
- B. A substance that changes colour or odour in acids and bases
- C. A solid chemical compound
- D. A type of neutral solution (B)

**Explanation :** An indicator is a substance that changes its colour or odour in the presence of acids or bases.

10. Which pair of litmus papers is used to test the nature of samples in the activity?

- A. Green and yellow
- B. Red and green
- C. Blue and yellow
- D. Red and blue (D)

**Explanation :** The activity uses both red and blue litmus papers to test substances.