1. Which substances change blue litmus paper to red?
A. Soap solution B. Lemon juice
C. Baking soda solution
D. Lime water (B)
Explanation : Lemon juice is acidic, and acids turn blue litmus red.

2. Which group of substances is neutral in nature?
A. Lemon juice and tamarind water
B. Soap solution and lime water
C. Tap water, sugar solution, and salt solution
D. Amla juice and vinegar (C)
Explanation : Tap water, sugar solution, and salt solution do not change either litmus, so they are neutral.

3. What colour does red rose extract give in a basic solution?
A. Yellow B. Red
C. Green D. Blue (D)
Explanation : Red rose extract turns green in basic substances.

4. Which of the following feels slippery to touch?
A. Vinegar B. Lemon juice
C. Baking soda solution
D. Amla juice (C)
Explanation : Baking soda solution is basic, and bases feel slippery to touch.

5. Turmeric paper turns which colour when a basic substance is added?
A. Blue B. Yellow
C. Green D. Red (D)
Explanation : Turmeric turns red in the presence of a base.

6. Which indicator can detect only basic substances and not acid or neutral ones?
A. Red rose extract
B. Litmus solution
C. Turmeric paper
D. Onion extract (C)
Explanation : Turmeric paper changes colour only with bases.

7. What is produced during a neutralisation reaction?
A. Only water B. Only salt
C. Salt, water, and heat
D. Acid and base (C)
Explanation : Neutralisation forms salt, water, and releases heat.

8. Which remedy helps to relieve the pain of an ant bite?
A. Vinegar B. Lemon water
C. Washing powder solution
D. Moist baking soda (D)
Explanation : Ants inject formic acid; baking soda, a base, neutralises it.

9. What should be added to acidic soil to help plants grow better?
A. Organic matter B. Salt solution
C. Lime
D. Sugar solution (C)
Explanation : Lime, being basic, neutralises acidic soil.

10. Which natural indicator changes odour in acidic or basic mediums?
A. Rose extract B. Onion
C. Turmeric D. Beetroot (B)
Explanation : Onion acts as an olfactory indicator and changes smell in acidic and basic media.

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