

1. Window cleaner contains
 

(a) ammonium hydroxide	(b) sodium hydroxide
(c) tartaric acid	(d) calcium hydroxide.
2. Phenolphthalein gives \_\_\_\_\_ colour with soap solution.
 

(a) pink	(b) colourless	(c) orange	(d) green
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3. China rose indicator turns \_\_\_\_\_ with aerated soft drink.
 

(a) green	(b) magenta	(c) blue	(d) black
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4. Sodium chloride solution is neutral in nature because
 

(a) it is formed by the complete neutralisation of a strong acid and a strong base	(b) it is formed by the complete neutralisation of a weak acid and a weak base
(c) it is formed by the incomplete neutralisation of a strong acid and a strong base	(d) it is formed by the incomplete neutralisation of a weak acid and a weak base.
5. The correct way of making a solution of acid in water is to
 

(a) add water to acid	(b) add acid to water
(c) mix acid and water simultaneously	(d) add water to acid in a shallow container.
6. Phenolphthalein is a synthetic indicator and its colours in acidic and basic solutions, respectively are
 

(a) red and blue	(b) blue and red
(c) pink and colourless	(d) colourless and pink.
7. 'Litmus', a natural dye is an extract of which of the following?
 

(a) China rose (Gudhal)	(b) Beetroot
(c) Lichen	(d) Blue berries (Jamun)
8. A solution changes the colour of turmeric indicator from yellow to red. The solution is
 

(a) basic	(b) acidic	(c) neutral	(d) either neutral or acidic.
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9. Which of the following set of substances contain acids?
 

(a) Grapes, lime water	(b) Vinegar, soap
(c) Curd, milk of magnesia	(d) Curd, vinegar

**Assertion-Reason Codes:**

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (b) If both Assertion and Reason are true and Reason is not the correct explanation of Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If both Assertion and Reason are false.

10. Assertion: When an acid is dissolved in water, heat is given out.  
 Reason: Acids are diluted by adding water to acids.

11. Assertion: Acids are not stored in metal containers.  
 Reason: Metal heat with acids

12. Assertion: A farmer adds quick lime to basic soil.  
 Reason: Quick lime neutralises the excess of base present in soil.

13. Select the odd one out.
 

(a) Formic acid	(b) Nitric acid	(c) Sulphuric acid	(d) Hydrochloric acid
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