

# CBSE Class 10 Science MCQ Chapter 2 Acids Bases and Salt with Answers

Q1) Which Acid is present in Tomato ?

- (A) Citric Acid
- (B) Oxalic Acid
- (C) Lactic Acid
- (D) HCl

Correct Answer: Option (B)

Q2) Which Acid is a strong Acid in the following:

- (A) HCl pH 1
- (B)  $\text{CH}_3\text{COOH}$  pH 5
- (C) Lemon juice pH 2.2
- (D) Pure Milk pH 6

Correct Answer: Option (A)

Q3)  $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$  is known as-

- (A) Baking Soda
- (B) Baking Powder
- (C) Washing Soda
- (D) Bleaching Powder

Correct Answer: Option (C)

Correct Answer: Option (C)

Q4) pH value less than 7 indicates that the solution is –

- (A) Acidic
- (B) Basic
- (C) Neutral
- (D) No effect

Correct Answer: Option (A)

Q5) Which salt is Neutral salt?

- (A)  $\text{NH}_4\text{Cl}$
- (B)  $\text{CH}_3\text{COONH}_4$
- (C)  $\text{CH}_3\text{COONa}$
- (D)  $\text{Na}_2\text{CO}_3$

Correct Answer: Option B

Q6) Lactic Acid is present in-

- (A) Orange
- (B) Tea
- (C) Curd
- (D) Vinegar

Correct Answer: Option (C)

Q7) Farmers neutralize the effect of Acidity on soil by adding

- (A) Slaked Lime
- (B) Gypsum
- (C) Caustic Soda
- (D) Baking Soda

Correct Answer: Option (A)

Q8) Which of the following are present in a dilute Aqueous solution of Hydrochloric Acid?

- (A)  $\text{H}_3\text{O}^+ + \text{Cl}^-$
- (B)  $\text{H}_3\text{O}^+ + \text{OH}^-$

- (C)  $\text{Cl}^- + \text{OH}^-$
- (D) Unionised HCl

Correct Answer: Option (A)

- Q9)  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$  In this Compound the water molecule is called -
- (A) Pure Water
  - (B) Water of Crystallisation
  - (C) Soda Water
  - (D) None of these

Correct Answer: Option (B)

- Q10) Which of the following salts does not contain water of crystallization?
- (A) Blue vitriol
  - (B) Baking soda
  - (C) Washing soda
  - (D) Gypsum

Correct Answer: Option (B)

- Q11) An aqueous solution turns the red litmus solution blue. Excess addition of which of the following solutions would reverse the change?
- (A) Baking powder
  - (B) Lime
  - (C) Ammonium hydroxide solution
  - (D) Hydrochloric acid

Correct Answer: Option (D)

- Q12) In which pH range does our body work to survive in the atmosphere?
- (A) 5.5 to 8.5
  - (B) 7.0 to 7.8
  - (C) 2.3 to 7.0
  - (D) 7.5 to 12.5

Correct Answer: Option (B)

- Q13) What is the chemical formula of POP (Plaster of Paris)?
- (A)  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
  - (B)  $\text{CaSO}_4 \cdot 3\text{H}_2\text{O}$
  - (C)  $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$
  - (D)  $\text{CaCO}_3 \cdot 1/2\text{H}_2$

Correct Answer: Option (C)

Q14) What happens when a solution of an acid is mixed with a solution of a base in a test tube?

- (i) The temperature of the solution increases
- (ii) The temperature of the solution decreases
- (iii) The temperature of the solution remains the same
- (iv) Salt formation takes place

- (A) (i) only
- (B) (i) and (iii)
- (C) (ii) and (iii)
- (D) (i) and (iv)

Correct Answer: Option (D)

Q15) Which salt is Acidic in nature?

- (A)  $\text{NH}_4\text{Cl}$
- (B)  $\text{CH}_3\text{COONH}_4$
- (C)  $\text{NaCl}$
- (D)  $\text{Na}_2\text{CO}_3$

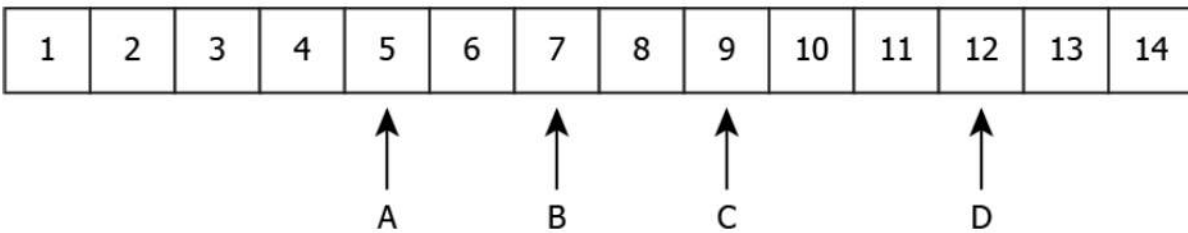
Correct Answer: Option (A)

Q16) When a base reacts with a metal, it forms a salt and hydrogen gas is released. By what method can the presence of hydrogen be detected?

- (A) by water
- (B) by litmus paper
- (C) by methyl orange
- (D) by a burning candle

Correct Answer: Option (D)

Q17) The image shows the pH values of four solutions on a pH scale.



Which solutions are alkaline in nature?

- (A) A and B
- (B) B and C
- (C) C and D
- (D) A and D

Correct Answer: Option (C)

