

# ACIDS, BASES, SALTS AND METALS BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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**Q1.** Which one of the following is viscous?

- a) Water
  - b) Honey
  - c) Alcohol
  - d) Gasoline
- 

**Q2. Statement I :**

Metal ions are Lewis acids.

**Statement II :**

Metal ions are electron pair acceptors.

- a) Statement I is true but Statement II is false.
  - b) Both the statements individually true and Statement II is the correct explanation of Statement I.
  - c) Both the statements are individually true but Statement II is not correct explanation of Statement I.
  - d) Statement I is false but Statement II is true.
- 

**Q3.** Which of the following is present in maximum amount in acid rain?

- a)  $\text{HNO}_3$
  - b)  $\text{H}_2\text{SO}_4$
  - c) HCl
  - d)  $\text{H}_2\text{CO}_3$
- 

**Q4.** Why bases are kept in glass bottles?

- a) Basic solutions are conducting in nature
- b) Bases are corrosive in nature
- c) Bases produce OH<sup>-</sup> ions in aqueous solutions
- d) Bases have soapy texture

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**Q5.** Plaster of paris has the formula –

- a) CaSO<sub>4</sub> .H<sub>2</sub>O
- b) CaSO<sub>4</sub> .1½H<sub>2</sub>O
- c) CaSO<sub>4</sub> .½H<sub>2</sub>O
- d) CaSO<sub>4</sub> .2H<sub>2</sub>O

**Q6.** Goldsmiths uses aqua regia, which is prepared by mixing

- a) Nitric acid and Hydrochloric acid
- b) Sulphuric acid and Hydrochloric acid
- c) Nitric acid and Sulphuric acid
- d) Citric acid and Benzoic acid

**Q7.** Human stomach produces acid 'X' which helps in digestion of food. Acid 'X' is

- a) hydrochloric acid
- b) acetic acid
- c) methanoic acid
- d) citric acid

**Q8.** Which among the following statements with regard to pH scale is/are correct?

- I. It is a logarithmic scale.
- II. The scale is limited to 0-14 because the ionic product of water is about  $10^{-14}$
- III. The lower the value of pH, the greater the acidity of the solution.

Select the correct answer using the code given below

- a) I and III only
  - b) I and II only
  - c) I, II and III
  - d) II only
- 

**Q9.** Reaction of an acid with a base is known as –

- a) combination
  - b) redox reaction
  - c) decomposition
  - d) neutralization
- 

**Q10.** Antacids contain –

- a) weak acid
  - b) strong base
  - c) weak base
  - d) strong acid
- 

**Q11.** Plaster of Paris hardens by –

- a) changing into  $\text{CaCO}_3$
  - b) combining with water
  - c) giving of  $\text{CO}_2$
  - d) giving out water
- 

**Q12.** The chemical name of bleaching powder is

- a) calcium oxychloride

- b) calcium chloroxide
- c) calcium chloride
- d) none of above

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**Q13.** Which one of the following salts when dissolved in water makes the solution basic?

- a) Ferric chloride
- b) Sodium chloride
- c) Copper sulphate
- d) Sodium acetate

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**Q14.** The chemical formula of washing soda is

- a)  $\text{Na}_2\text{CO}_3$
- b)  $\text{NaHCO}_3$
- c)  $\text{NaOH}$
- d)  $\text{Ca}(\text{OH})_2$

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**Q15.** To protect tooth decay we are advised to brush our teeth regularly. The nature of the tooth paste commonly used is

- a) neutral
- b) basic
- c) acidic
- d) corrosive

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## Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (b)

Q3. Answer: (b)

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**Q4. Answer: (b)**

**Q5. Answer: (c)**

**Q6. Answer: (a)**

**Q7. Answer: (a)**

**Q8. Answer: (c)**

**Q9. Answer: (d)**

In a neutralization reaction an acid reacts with a base and forms salt and water.

**Q10. Answer: (c)**

Antacids are weak bases which are given when a patient is suffering from acidity. These antacids neutralises the acid and give relief to patient.

**Q11. Answer: (b)**

$\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O} + 3/2\text{H}_2\text{O} \rightarrow \text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

**Q12. Answer: (a)**

**Q13. Answer: (d)**

**Q14. Answer: (a)**

**Q15. Answer: (b)**

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