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

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By Careericons Team

- 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.

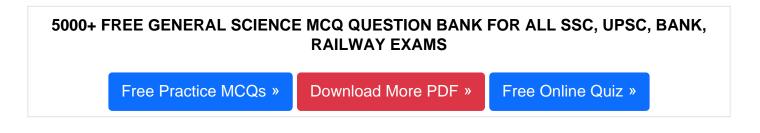
d) Statement I is false but Statement II is true.

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

- a) \$HNO_3\$
- b) \$H_2SO_4\$
- c) HCL
- d) \$H_2CO_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- ions in aqueous solutions
- d) Basis have soapy texture



- Q5. Plaster of paris has the formula -
- a) CaSO₄ .H₂O
- b) CaSO₄ .1½H₂O
- c) CaSO₄ .½H₂O
- d) CaSO₄ .2H₂O

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 CaCO₃
- b) combining with water
- c) giving of 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

Q14. The chemical formula of washing soda is

- a) Na₂CO₃
- b) NaHCO₃
- c) NaOH
- d) Ca(OH)₂

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

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)

\$CaSO_4.{1/2}H_2O+3/2H_2O ? {CaSO_4}.2H_2O\$

Q12. Answer: (a)

Q13. Answer: (d)

Q14. Answer: (a)

Q15. Answer: (b)

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