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. Bases turn red litmus blue and acids turn blue litmus red. A student tested a liquid with a red litmus paper and it stayed red with no change. This shows that the liquid

- a) is not a base
- b) must be pure water
- c) must be an acid
- d) is neither a base nor an acid

Q2. The concentration of hydrochloric acid in a given solution is 10_{-8} M. What is the value of pH for this solution ?

- a) 7
- b) 7
- c) > 7 but not 14
- d) 14

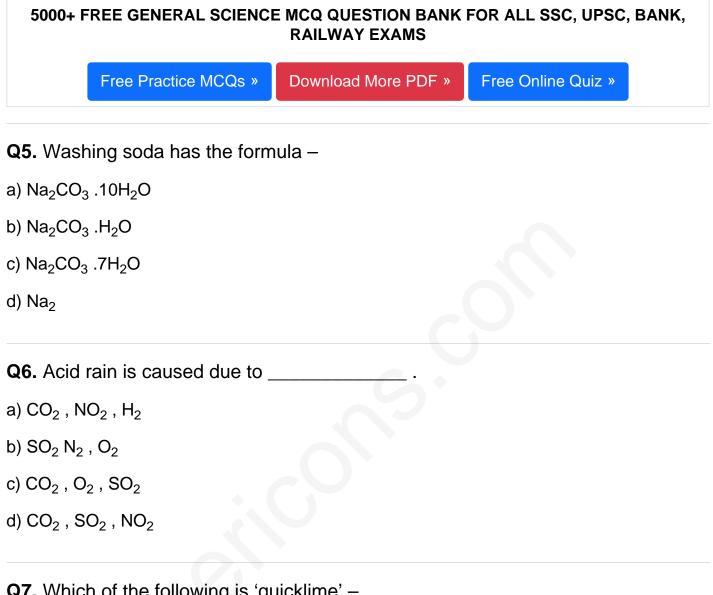
Q3. Which of the following compounds is basic in nature ?

- a) CaCl₂ .6H₂O
- b) NaCl
- c) $Ca(OH)_2$
- d) CuSO₄ .5H₂O

Q4. Which of the following statement is true?

a) Bases are sour in taste

- b) The reaction between acid and a base is exothermic reaction
- c) Acids are bitter in taste
- d) The reaction between an acid and a base is endothermic reaction.



Q7. Which of the following is 'quicklime' –

- a) Ca(OH)₂
- b) CaCO₃
- c) CaO
- d) CaCl₂.6H₂O

Q8. Baking soda is

a) Sodium Dihydrogen Carbonate

- b) Disodium Hydrogen Carbonate
- c) Sodium Hydrogen Carbonate
- d) Sodium Carbonate

Q9. Which of the following is a weak base ?

- a) KOH
- b) NH₄OH
- c) NaOH
- d) none of these

Q10. Common salt besides being used in the kitchen can also be used as the raw material for making

- i. Washing soda
- ii. Bleaching powder
- iii. Baking soda
- iv. Slaked lime
- a) (i), (ii) and (iv)
- b) (i) and (iii)
- c) (i) and (ii)
- d) (i), (iii) and (iv)

Q11. An unknown gas quickly dissolves in water. This gaseous aqueous solution turns red litmus into the blue. This gas produces hydrogen chloride with a white flame. This unknown gas is

- a) Nitric hydroxide
- b) Ammonia
- c) Sulphur dioxide
- d) Carbon monoxide

- a) oxygen
- b) carbon dioxide
- c) hydrogen
- d) nitrogen dioxide



- Q13. The acid in gastricjuice is
- a) hydrochloric acid
- b) acetic acid
- c) nitric acid
- d) sulphuric acid

Q14. A solution turns red litmus blue. The pH of solution is

a) 1

b) 5

- c) 7
- d) None of these

Q15. Which one among the following is an electrochemical cell that cannot be charged ?

- a) Primary cell
- b) Electrolytic cell
- c) Storage cell
- d) Fuel cell

Q1. Answer: (b)

Q2. Answer: (a)

Q3. Answer: (c)

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Q4. Answer: (b)

This reaction is exothermic.

i.e. Heat is evolved HCI + NaOH ? NaCI + H₂O + Heat

Q5. Answer: (a)

Q6. Answer: (d)

Acid rain is caused due to increased pollution in the air.

The poisonous gases like sulphur dioxide, carbon dioxide and nitrogen dioxide react with water to form sulphuric acid, carbonic acid and nitric acid respectively.

Q7. Answer: (c)

Q8. Answer: (c)

Q9. Answer: (b)

NH4OH as it is not get completely ionized in aqueous solution.

Q10. Answer: (b)

\$NaCI + H_2O + CO_2 + NH_3 ? NH_4CI + {NaHCO_3} ?\text"Baking soda"\$

\$2NaHCO_3 ??\text"heat" Na_2CO_3 + H_2O + CO_2\$

\$\text"Na_2CO_3"?\text"Sodium carbonate" + 10 H_2O ? {Na_2CO_3 10 H_2O}
?\text"Hydrated sodium carbonate (washing soda)"\$

Q11. Answer: (b)

Q12. Answer: (b)

Vinegar is acetic acid and baking soda is sodium hydrogen carbonate (a base).

Whenever an acid reacts with a metal carbonate it produces carbon dioxide gas.

 $CH_3COOH + NaHCO_3 ? CH_3COONa + H_2O + CO_2$

Q13. Answer: (a)

Q14. Answer: (d)

Q15. Answer: (a)

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