

Science Quiz June 2022

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1. One of the following is a medicine for indigestion. This is -----
(A) sodium Hydroxide (B) manganese Hydroxide
(C) magnesium Hydroxide (D) potassium Hydroxide
2. Bee sting contains:
(A) an acidic liquid (B) a salt solution
(C) an alkaline liquid (D) an alcohol
3. Wash sting contains:
(A) a sugar solution (B) an acidic liquid
(C) a salt solution (D) an alkaline liquid
4. One of the following does not inject an acidic liquid into the skin through its sting. This is:
(A) honeybee (B) ant (C) wasp (D) nettle leaf hair
5. A solution turns red litmus blue. Its pH is likely to be:
(A) 1 (B) 4 (C) 5 (D) 10
6. A solution turns blue Litmus red. Its pH is likely to be:
(A) 7 (B) 5 (C) 8 (D) 14
7. A solution turns phenolphthalein indicator pink. The most likely pH of the solution will be:
(A) 6 (B) 4 (C) 9 (D) 7
8. The colour of methyl orange indicator in a solution is yellow. The pH of the solution is likely to be:
(A) 7 (B) less than 7 (C) 0 (D) more than 7
9. Bee sting can be treated with:
(A) vinegar (B) sodium hydrogen carbonate
(C) potassium Hydroxide (D) lemon juice
10. Wasp sting can be treated with:
(A) baking soda (B) vinegar (C) washing soda (D) milk of magnesia
11. It has been found that rubbing vinegar on the stung area of the skin of a person gives him relief. The person has been stung by:
(A) wasp (B) ant (C) honey Bee (D) nettle leaf hair
12. Fresh milk has a pH of 6 when milk changes into curd the pH will value will –
(A) become 7 (B) become less than 6
(C) become more than 7 (D) remain unchanged

13. The acid produced naturally in our stomach is -----
(A) acetic acid (B) citric acid
(C) hydrochloric acid (D) sulfuric acid
14. The daffodil plants grow best in a soil having a pH range of 6.0 -6.5 if the soil in a garden has a pH of 4.5 which substance need to be added to the soil in order to grow Daffodils
(A) salt (B) lime (C) sand (D) compost
15. What happens when a solution of an acid is mixed with a solution of a base in a test tube?
1. Salt formation takes place.
 2. The temperature of the solution remains the same.
 3. The temperature of the solution decreases.
 4. The temperature of the solution increases.
- (A) Only 1 (B) 1 and 2 (C) 2 and 4 (D) 1 and 4
16. An aqueous solution turns red litmus solution blue. Excess addition of which of the following solution would reverse the change?
- (A) Baking powder (B) Lime
(C) Ammonium hydroxide solution (D) Hydrochloric acid
17. During the preparation of hydrogen chloride gas on a humid day, the gas is usually passed through the guard tube containing calcium chloride. The role of calcium chloride taken in the guard tube is to -----
- (A) absorb the evolved gas (B) moisten the gas
(C) absorb moisture from the gas (D) absorb Cl^- ions from the evolved gas.
18. Which of the following salts does not contain water of crystallization?
- (A) Blue vitriol (B) Baking soda (C) Washing soda (D) Gypsum
19. Sodium carbonate is a basic salt because it is a salt of-----
- (A) strong acid and strong base (B) weak acid and weak base
(C) strong acid and weak base (D) weak acid and strong base
20. Calcium phosphate is present in tooth enamel. Its nature is
- (A) basic (B) acidic (C) neutral (D) amphoteric
21. Which of the following gives the correct increasing order of acidic strength?
- (A) Water < Acetic < Hydrochloric (B) Water < Hydrochloric < Acetic
(C) Acetic < Water < Hydrochloric (D) Hydrochloric < Water < Acetic

22. Which of the following statements is correct about an aqueous solution of an acid and of base?

1. Higher the pH, stronger the acid
2. Higher the pH, weaker the acid
3. Lower the pH, stronger the base
4. Lower the pH, weaker the base

(A) 1 and 3 (B) 2 and 3 (C) 1 and 4 (D) 2 and 4

23. Which of the following is not a mineral acid?

- (A) Hydrochloric acid (B) Citric acid
(C) Sulphuric acid (D) Nitric acid

24. Which of the following statements is not correct?

- (A) All metal carbonates react with acid to give a salt, water and carbon dioxide.
(B) All metal oxides react with water to give salt and acid.
(C) Some metals react with acids to give salt and hydrogen.
(D) Some non-metal oxides react with water to form acid.

25. Which of the following are responsible for causing acid-rain?

- (A) Oxides of sulphur and carbon dioxide
(B) Oxides of nitrogen and carbon monoxide
(C) Hydrogen sulphide and carbon dioxide
(D) Oxides of sulphur and nitrogen

ANSWERS

21. (D) 22. (C) 23. (B) 24. (B) 25. (A)
11. (A) 12. (B) 13. (C) 14. (B) 15. (D) 16. (D) 17. (C) 18. (B) 19. (D) 20. (A)
1. (C) 2. (A) 3. (D) 4. (C) 5. (D) 6. (B) 7. (C) 8. (D) 9. (B) 10. (B)