

Question (1): The characteristic properties of an acid is due to the presence of _____.

1. hydride ions
2. hydroxyl ions
3. hydronium ions
4. oxide ions

Ans: 3

Question (2): A strong acid in solution is _____.

1. mostly molecules
2. mostly ions
3. both molecules and ions
4. mostly water

Ans: 2

Question (3): A weak acid in solution is _____.

1. mostly molecules
2. mostly ions
3. both molecules and ions
4. less water

Ans: 3

Question (4): The pH of a carbonated drink is _____.

1. less than 7
2. more than 7
3. equal to 7
4. approximately 7.8

Ans: 1

Question (5): An acid is _____.

1. a proton donor
2. a proton acceptor
3. electron donor
4. electron acceptor

Ans: 1

Question (6): The drying of milk of lime (white washing) is due to the action of _____.

1. oxygen in air
2. nitrogen in air
3. CO₂ in air
4. hydrogen in air

Ans: 3

Question (7): A salt derived from a strong base and a weak acid will give a salt that is _____.

1. acidic
2. basic
3. neutral
4. volatile

Ans: 2

Question (8): When litmus is added to a solution of borax it turns _____.

1. red
2. pink
3. remains colourless
4. blue

Ans: 4

Question (9): Which of the following is not a mixed salt?

1. K_2CaPO_4
2. $Ca(OCl)Cl$
3. $Na_2K_2CO_3$
4. KCl

Ans: 4

Question (10): Which is a soluble base in water?

1. $Fe(OH)_3$
2. $Cu(OH)_2$
3. $Zn(OH)_2$
4. $NaOH$

Ans: 4

Question (11): Which of the following is a weak base?

1. $NaOH$
2. KOH
3. NH_4OH
4. $Ca(OH)_2$

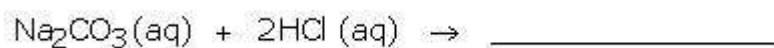
Ans: 3

Question (12): Choose the acid salt from the following:

1. $NaNO_3$
2. Na_2SO_4
3. $NaHSO_4$
4. Na_2CO_3

Ans: 3

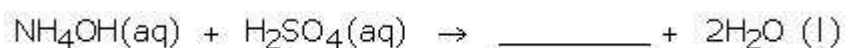
Question (13): In the following reaction, identify the products



1. sodium chloride and water
2. water and carbon dioxide
3. sodium carbonate, carbon dioxide and water
4. sodium chloride, carbon dioxide and water

Ans: 4

Question (14): In the following reaction, identify the salt formed



1. NH_4NO_3
2. $(\text{NH}_4)_2\text{SO}_4$
3. $(\text{NH}_4)_3\text{PO}_4$
4. $(\text{NH}_4)_2\text{S}$

Ans: 2

Question (15): Which of the following ionic species exist in a neutralization reaction?

1. HCl
2. H^+
3. H_2O
4. H_3O^+

Ans: 4