$CaSO_4 \cdot \frac{1}{2} H_2O + 'X' \longrightarrow CaSO_4 \cdot 2H_2O$.
Guess the substance 'X'. ( )

A) $2 H_2O$ B) $1\frac{1}{2} H_2O$
C) H_2O D) SO_2

Acid : ..... ? ..... :: Base : Red litmus. ( )

A) Red litmus
B) Blue litmus
C) Phenolphthalein
D) Methyl orange

Acid : Sour :: Base : _____ ( )

A) Slippery B) Bitter
C) Sweet D) Hot

How do you prepare baking powder ?

A) By adding baking soda and base ( )
B) By adding baking soda and acid
C) By adding baking soda and water
D) By adding baking soda and salt

The correct process is ..... ( )

A) Adding water to a base with constant stirring
B) Adding water to an acid with constant stirring
C) Adding an acid to water with constant stirring
D) All the above are not possible

a) HCl, b) H_2SO_4,
c) CH_3COOH, d) HNO_3,
e) $Mg(OH)_2$, f) NH_4OH,
g) $Ca(OH)_2$, h) KOH

From the above data select the correct option. Which one turns phenolphthalein solution into pink ? ( )

A) a, b, g, h B) a, b, c, d
C) e, f, g, h D) All the above

9. Which are of the following not used to test acid or base ? ( )

a) Red litmus b) Blue litmus
c) Phenolphthalein solution
d) Methyl orange solution
e) Onion f) Vanilla
g) Clove oil

A) a, b, c B) e, f, g
C) c, d D) None of the above

110. Which of the following turns pH paper into red, orange or yellow ? ( )

a) Tomato juice with pH 5.5.
b) HCl with $p^H 2$
c) Lemon juice with $p^H 3$
d) Distilled water with $p^H 7$
e) Tap water with $p^H 8$
f) Baking soda with $p^H 7.5$

A) d, e, f B) a, b, c
C) 'd' only D) Above all

111. HCl, H_2SO_4, CH_3COOH are some acids. Which of the following is not true for the above acids ? ( )

A) All are produce H^+ ions in water
B) All are turns blue litmus to red
C) pH of the compounds is less than 7
D) All are strong acids

112. Which of the following combination is wrong ? ( )

Compound	Use
A) Washing soda	Borax
B) Baking soda	Antacid
C) Bleaching powder	Disinfectant
D) Bleaching powder	Fire extinguishers

113. Which of the following is wrong regarding salts ? ( )

A) These are formed by neutralisation reaction
B) Aqueous solution of salts is neutral.
C) Aqueous solution of salts is acidic or basic or neutral.
D) pH of aqueous solution of salts may be 7 or <7 or >7.

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