

# COMPOUNDS

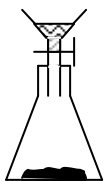
TEST \_\_\_\_\_

## Acids and Bases

Date: \_\_\_\_\_

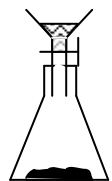
- Which one of the following is an acid?  
A) NaOH B) NH<sub>3</sub> C) CH<sub>4</sub> D) HNO<sub>3</sub> E) H<sub>2</sub>O
- Which one of the following is false for acids and bases?  
A) They produce hydrogen gas when reacted with Zn.  
B) They turn the color of litmus paper.  
C) Acids have sour taste and bases have bitter taste.  
D) Their solutions conduct electricity.  
E) They do not react with iron.
- Which one of the following nomenclature is not correct?  

Formula	Name
A) HCl	Hydrochloric Acid
B) H <sub>2</sub> SO <sub>4</sub>	Sulfuric Acid
C) CH <sub>3</sub> COOH	Acetic Acid
D) AgOH	Silver hydroxide
E) HNO <sub>3</sub>	Nitrogen Acid
- Which one of the following is not true for both acids and bases?  
A) They change the color of litmus paper.  
B) They dissociate into their ions in water.  
C) Their water solutions conduct electricity.  
D) They react with Al and Zn  
E) They react with Ca and produce H<sub>2</sub> gas.
- For the solutions of HBr and KOH;  
I. Both solutions conduct electricity  
II. HBr produces H<sub>2(g)</sub> with Zn metal  
III. KOH produces H<sub>2(g)</sub> with Zn metal  
Which one(s) is/are correct?  
A) I B) II C) III D) I-II E) I-II-III
- Which one of the following can react with NaOH?  
A) Fe B) Ag C) Cu D) Al E) Mg
- Which one of the following turns blue litmus to red?  
A) NH<sub>3</sub> B) NaOH C) H<sub>2</sub>S D) C<sub>2</sub>H<sub>5</sub>OH E) Al(OH)<sub>3</sub>
- HCl solution



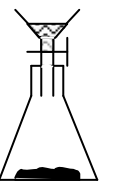
NaOH

NaOH solution



Zn

HCl solution



CaCO<sub>3</sub>

When the sufficient amount of solutions is poured into each container; in which container (s) would you expect reaction?  
A) I B) II C) III D) II-III E) I-II-III
- Which one(s) is (are) properties of acids?  
I. Evolve H<sub>2</sub> gas with active metals.  
II. Form salts with bases.  
III. Aqueous solutions conduct electricity.  
A) II B) I C) III D) I-II E) I-II-III
- Which of the following is (are) true for acidic solutions?  
I. produce H<sup>+</sup> ion in water.  
II. react with Zn metal.  
III. react with bases  
A) I only B) II only C) III only D) I-III E) I-II-III
- Which of the following is (are) true for basic solution?  
I. produce OH<sup>-</sup> ion in water.  
II. they are electrical conductor.  
III. react with CO<sub>2</sub> gas.  
A) I only B) I-II C) I-III D) II-III E) I-II-III
- Which of the following is (are) true for both acidic and basic solutions?  
I. produce H<sup>+</sup> ion in water.  
II. react with CO<sub>2</sub> gas.  
III. conduct electricity.  
A) I only B) II only C) III only D) I-II E) I-II-III
- Which is not true for a concentrated basic solution?  
A) It conducts electricity well.  
B) It forms salt with acids.  
C) Salt forms when CO<sub>2</sub> is passed through in it.  
D) It produces H<sub>2</sub> when reacted with Fe metal.  
E) It contains large amounts of OH<sup>-</sup> ions
- For a strong acid and a strong base;  
I. Conduct electricity very well.  
II. Evolve H<sub>2</sub> gas with amphoteric metals.  
III. Dissolve in water  
Which one(s) of them is (are) common?  
A) I only B) II only C) I-II-III D) I-II E) II-III
- I. HCl + KOH ⇒  
II. Mg + H<sub>2</sub>SO<sub>4</sub> ⇒  
III. Ca + NaOH ⇒  
Which of the above reactions occur?  
A) only II B) only I C) II-III D) I-II E) only III
- I. Evolved H<sub>2</sub> gas with Zn  
II. Changes the color of litmus paper  
III. Forming salt with amphoteric oxides  
Which one(s) of the above is (are) properties for HCl and NaOH?  
A) I B) II C) III D) I-II E) I-II-III