Acids, Bases, and Salts Review

1	solution to form		y compound dissociating . Example: HNO₃(aq.) →	- H	
		HCI (aq.) $ ightarrow$ _			
2	An Arrhenius base is defined as any compound dissociating in an aqueous solution to form ions. Example: KOH (aq) \rightarrow K ⁺ (aq) + OH ⁻ (aq). Complete the following equation:				
		NaOH (aq.) \rightarrow _			
3	Salts are compounds that dissociate in an aqueous solution releasing neithermore $\underline{\hspace{1cm}}$ nor $\underline{\hspace{1cm}}$ ions. Example: KCI (aq.) \rightarrow K ⁺ (aq.) + CI ⁻ (aq.). Complete the following equation:				
		NaCl (aq.) \rightarrow _			
4	A solution that has strong conductivity and reacts with the metal to make hydrogen gas is a				
	a Strong Base	b Weak Base	© Strong Acid	d Weak Acid	
	Answers				
5	Which of the following is slippery to touch?				
	a Strong Acid	b Strong Base	© Strong Electrolyte	d Water	
	Answers				
6	The hydronium ion is				
	$A H_3O^+$	b H ₂ O	c OH⁻	$\mathbf{d} \ \mathbf{H}_2$	
	Answers				
7	A substance that changes color in an acidic or basic solution is called				
	a Neutralizer	b Inhibitor	c pH indicator	d Catalyst	
	Answers				
8	Name the following acids and bases				
	HF		HNO ₃		
	KOH		Ma(OH)		

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1	An Arrhenius acid is defined as any compound dissociating in an aqueous				
	solution to form	hydrogen	ions. Example: $HNO_3(aq.) \rightarrow H^+(aq.) + NO_3(aq.)$		
	Complete the following equation:				

$$HCI(aq.) \rightarrow H^{+}(aq.) + CI^{-}(aq.)$$

(2) An Arrhenius base is defined as any compound dissociating in an aqueous solution to form hydroxide ions. Example: KOH (aq) \rightarrow K⁺ (aq) + OH⁻ (aq). Complete the following equation:

NaOH (aq.)
$$\rightarrow$$
 Na⁺ (aq.) + OH⁻ (aq.)

3 Salts are compounds that dissociate in an aqueous solution releasing neither hydrogen nor hydroxyl ions. Example: KCl (aq.) \rightarrow K⁺ (aq.) + Cl⁻ (aq.). Complete the following equation:

$$NaCl(aq.) \rightarrow Na^{+}(aq.) + Cl^{-}(aq.)$$

- (4) A solution that has strong conductivity and reacts with the metal to make hydrogen gas is a
 - a Strong Base b Weak Base c Strong Acid d Weak Acid

Answers c

- (5) Which of the following is slippery to touch?
- a Strong Acid b Strong Base c Strong Electrolyte d Water

Answers b

- 6 The hydronium ion is
- C OH⁻

 $\left(\mathbf{d}\right)$ H_{2}

Answers a

- (7) A substance that changes color in an acidic or basic solution is called
 - Neutralizer
- ы Inhibitor С рН indicator
- d Catalyst

Answers c

(8) Name the following acids and bases

HF Hydrofluoric acid

HNO₃ Nitric acid

KOH Potassium hydroxide

Mg(OH)₂ Magnesium hydroxide