Unit 11 Review Quiz: Accel Chem

1.	Which of the following is a property of a base?		
	a. Sour taste	c.	Turns red litmus paper blue
	b. Reacts with metals	d.	pH < 7
2.	. Which of the following is an example of an Arrhenius acid?		
	a. NH₃	C.	CH₃COOH
	b. H ₃ O ⁺	d.	H₂SO ₄
3.	What products form in a neutralization reaction?		
	a. Salt and water	c.	Hydrogen ion and water
	b. Hydronium and water	d.	Impossible to predict
4.	Determine the Bronsted-Lowry base in the following process: NH₃ + H₂O		
	a. NH₃	C.	NH_4^+
	b. H₂O	d.	OH-
5.	Determine the conjugate acid in the following process: HF(aq)	+ HSO ₃ -(aq) ⇄ F⁻(aq) + H₂SO₃(aq)
	a. HF (aq)	C.	F ⁻ (aq)
	b. HSO₃⁻(aq)	d.	H₂SO₃(aq)
6.	Which of the following is NOT a monoprotic acid?		
	a. HNO₃	c.	H₂S
	b. CH₃COOH	d.	HCI
7.	Which of the following is a binary acid?		
	a. H₂S	C.	H₂SO₄
	b. HNO₃	d.	NaOH
8.	What is the pOH of a solution that has a pH of 8.2?		
	a. 6.3 x 10 ⁻⁹	c.	-0.91
	b. 5.8	d.	22.2
9.	What is the pH of 2.8×10^{-6} M HCl?		
	a. 5.6	c.	11.2
	b. 1.0	d.	2.8
10.	10. If it takes 54 mL of 0.1 M NaOH to neutralize 125 mL of an HCl solution, what is the concentration of the HCl		
	a. 0.231 M	c.	4.32 M
	b. 0.0864 M	d.	0.0432 M
11. How many milliliters of 0.360 M H₂SO₄ are required to neutralize 25.0 mL of 0.100 M Ba(OH)₂?			
	a. 6.94 mL	c.	69.4 mL
	b. 144 mL	d.	1.44 mL
12.	What is the pH of a 6.5×10^{-10} M NaOH?		
	a. 1.0	c.	4.8
	b. 1.5×10^{-5}	d.	9.2
13. What is the $[H^+]$ for a solution $[OH^-] = 1.6 \times 10^-3$?			
	a. 6.3 x 10 ⁻¹² M	c.	11.2 M
	b. 2.8 M	d.	1.0 x10 ⁻¹⁴ M
14.	What is the pOH of a solution with a $[H^+] = 6.5 \times 10^{-3}$?		
	a. 1.0		
	b. 1.5×10^{-12}		
	c. 2.2		
	d. 11.8		