1. In which laboratory process could a student use 5. The diagram below shows a laboratory setup 0.10 M NaOH(aq) to determine the that can be used in a titration. concentration of an aqueous solution of HBr? A) titration B) chromatography C) evaporation of the solvent G D) decomposition of the solute 2. In a titration, 20.0 milliliters of a 0.150 M NaOH(aq) solution exactly neutralizes 24.0 milliliters of an HCl(aq) solution. What is the concentration of the HCl(aq) solution? B) 0.180 M A) 0.125 M D) 0.360 M C) 0.250 M Which pieces of equipment are indicated by arrows A and B, respectively? 3. An acid solution exactly neutralized a base A) pipet and volumetric flask solution according to the equation acid + base B) buret and volumetric flask \rightarrow salt + water. If the neutralized mixture C) buret and Erlenmeyer flask contained the salt KCl, the pH of the aqueous D) pipet and Erlenmeyer flask mixture would be closest to A) 9 B) 7 C) 3 D) 11 6. According to one acid-base theory, a base is an A) Na⁺ donor B) Na⁺ acceptor 4. Which compound is produced when HCl(aq) is C) H^+ donor D) H⁺ acceptor neutralized by Ca(OH)₂(aq)? A) CaH₂ B) CaCl₂ C) HClO D) HClO₂ 7. Compared to a solution with a pH value of 7, a solution with a thousand times greater hydronium ion concentration has a pH value of A) 3 B) 10 C) 4 D) 7

 8. Three samples of the same solution are tested, each with a different indicator. All three indicators, bromthymol blue, bromcresol green and thymol blue, appear blue if the pH of the solution is A) 4.7 B) 6.0 C) 7.8 D) 9.9 	9. Potassium hydrox Arrhenius base be A) K ⁺ ions C) H ⁺ ions	tide is classified as an ecause KOH contains B) O ^{2–} ions D) OH [–] ions
	10. Which substance A) H ₂ SO ₄ C) SiO ₂	e is an electrolyte? B) C6H12O6 D) CCl4