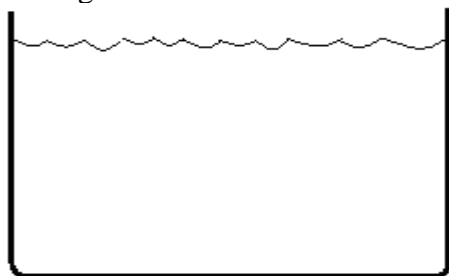


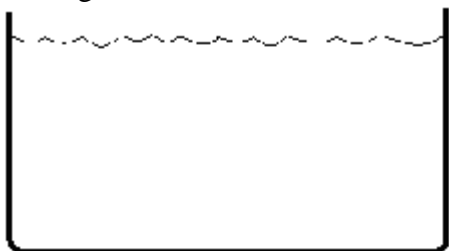
CHM152 GROUP WORK 3

- Write the formula **and** name for the conjugate acid for the following bases:
 - NH_3 c. acid = _____ name = _____
 - PO_4^{3-} c. acid = _____ name = _____
 - CH_3COO^- c. acid = _____ name = _____
 - F^- c. acid = _____ name = _____

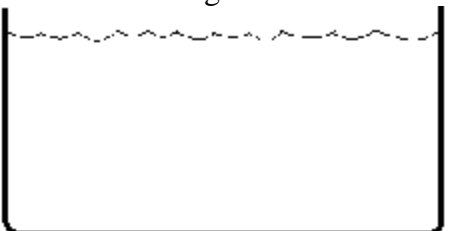
- Write the balanced reaction for what happens when nitric acid is put in water. Draw the resulting solution in the beaker.



- Write the balanced reaction for what happens when acetic acid is put in water. Draw the resulting solution in the beaker.



- Write the balanced reaction for what happens when barium hydroxide is put in water. Draw the resulting solution in the beaker.



- What is the hydroxide concentration **and** pH if an aqueous solution has a hydronium concentration of $3.57 \times 10^{-9}\text{M}$. Is this solution acidic or basic? _____