	CH1010 Tutorial 1
Name	:
1.	 Draw a molecular structure of phosphoric acid. What type of bonding is present in this molecule. What is the acid/base chemistry of the phosphoric acid system important from a biochemical perspective?
2.	Write down the $\textbf{equilibrium constant}$ (K_c) for the dissociation of formic acid to form the formate ion and $H^{\text{+-}}$

What is the difference between a **hydrophobic** and a **hydrophilc organic molecule**? Provide examples to illustrate your answer.

3.

4.	Calculate the molarity of a sucrose solution prepared from 102g of sucrose and 253cm ³ of water.
5.	Why is a catalyst important in a chemical reaction?
6.	Calculate the pH of a 0.014M HCl solution. Is this acidic, neutral or basic – explain why?
7.	Draw the un-ionized and zwitterionic forms of serine. In which form would serine be present in solution at pH 10.0?