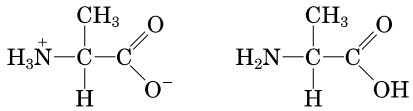
IN CLASS ACTIVITY: AMINO ACIDS			
Purpose:	To learn the 20 essential AAs.	30 minutes	Do no to use the internet Discuss in group.
Over to you:	Use the previous group of 4 , take a white paper and draw a table with 3 heading in the Columns: Amino Acid, Abbreviation and R-group Linea Formula		
Activity:	Fill the table with the 20 essentials AAs, after the 10 minutes the group will exchange their answers sheet with other groups for marking. Fills the table on the board for corrections. **Answer these questions:** What are the non-polar AA and polar AA? What are the uncharged AA? What are the Aromatic AA? **Answer this problem:** How Much Alanine Is Present as the Completely Uncharged Species? At a pH equal to the isoelectric point, the net charge on alanine is zero. Two structures can be drawn that have a net charge of zero (zwitterionic and uncharged forms), but the predominant form of alanine at its pI is zwitterionic.  Zwitterionic Uncharged (a) Explain why the form of alanine at its pI is zwitterionic rather than completely uncharged. (b) Estimate the fraction of alanine present at its pI as the completely uncharged form. Justify your assumption		