Question 21 (3 marks)

A 0.001 mol L^{-1} solution of hydrochloric acid and a 0.056 mol L^{-1} solution of **3** ethanoic acid both have a pH of 3.0.

Why do both solutions have the same pH?

The ethanoic acid can not completly ionise but 0.056 mol L⁻¹ is more concentrated than 0.001 mol L⁻¹. In the hydrochloric acid, to the molecular completely in ionise. So It have has the same amount of [HII® \$ of 0.056 mol L⁻¹ ethanoic acid. So B This two acid have the same pH because they have the same concentration of [H⁺].