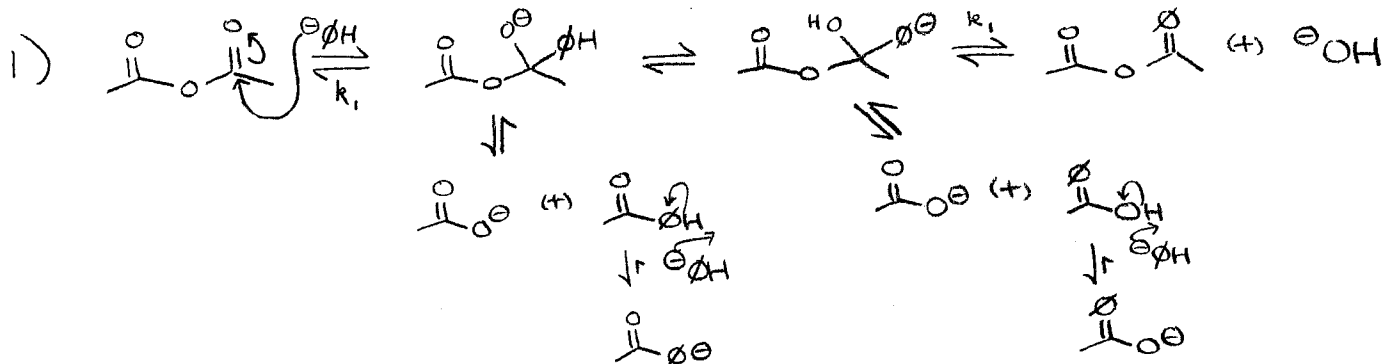


Problem Set 7 Solutions

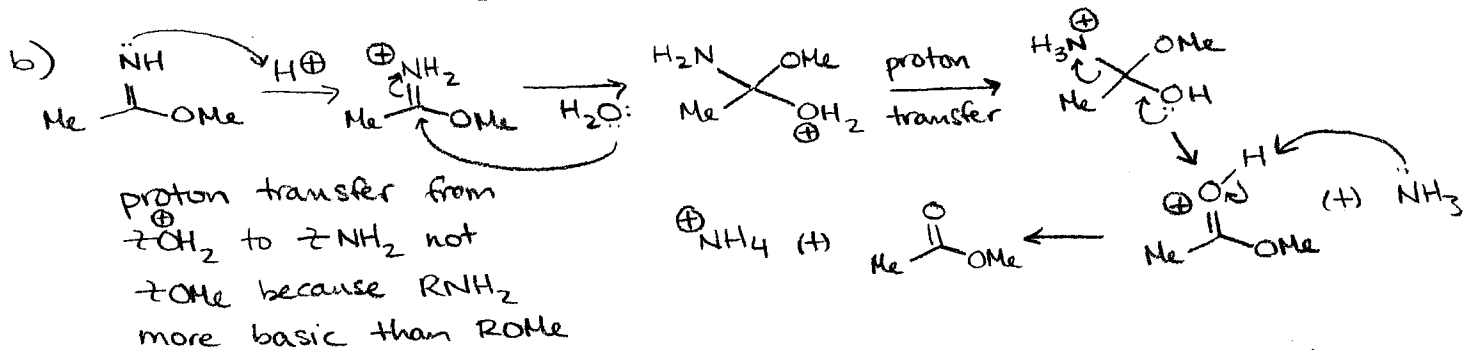
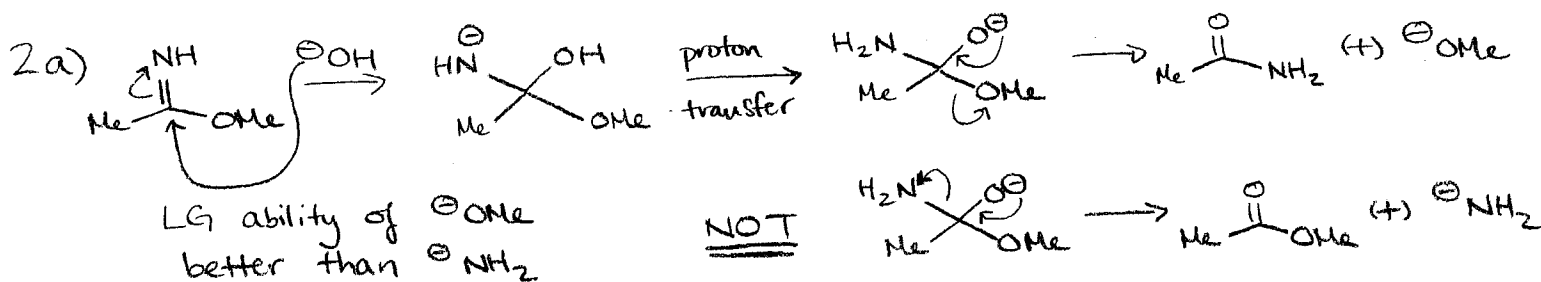


LG ability of COO^- better than OH^-

therefore, k_2 faster than k_1

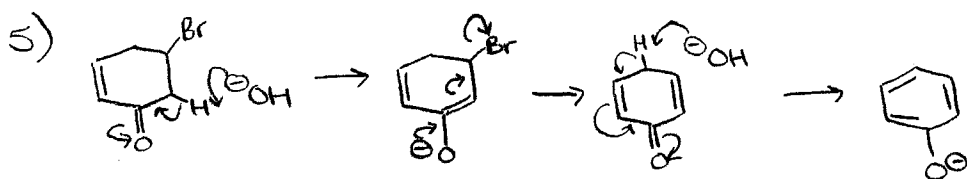
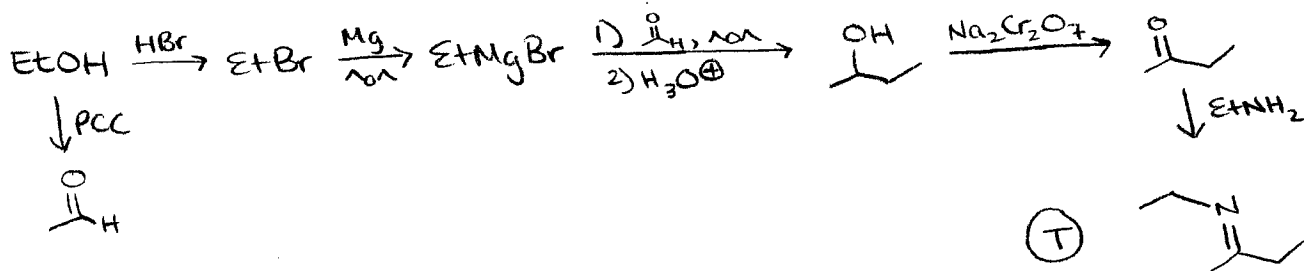
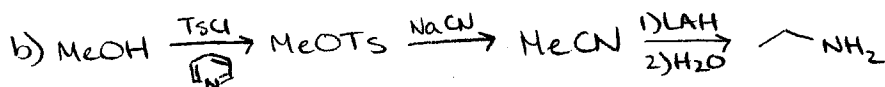
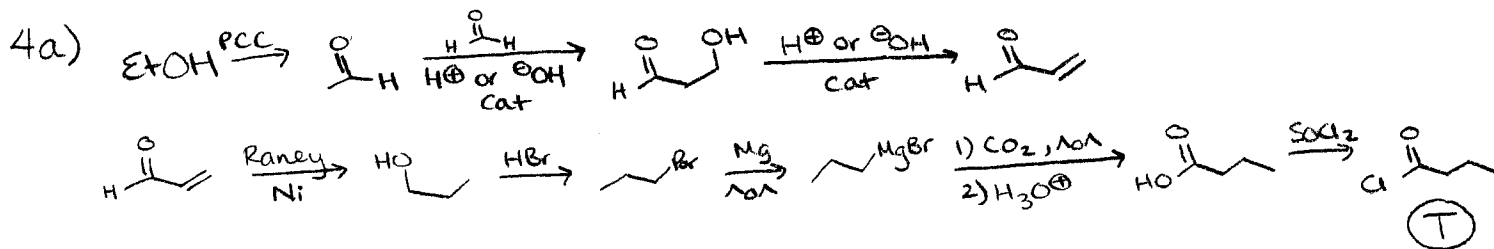
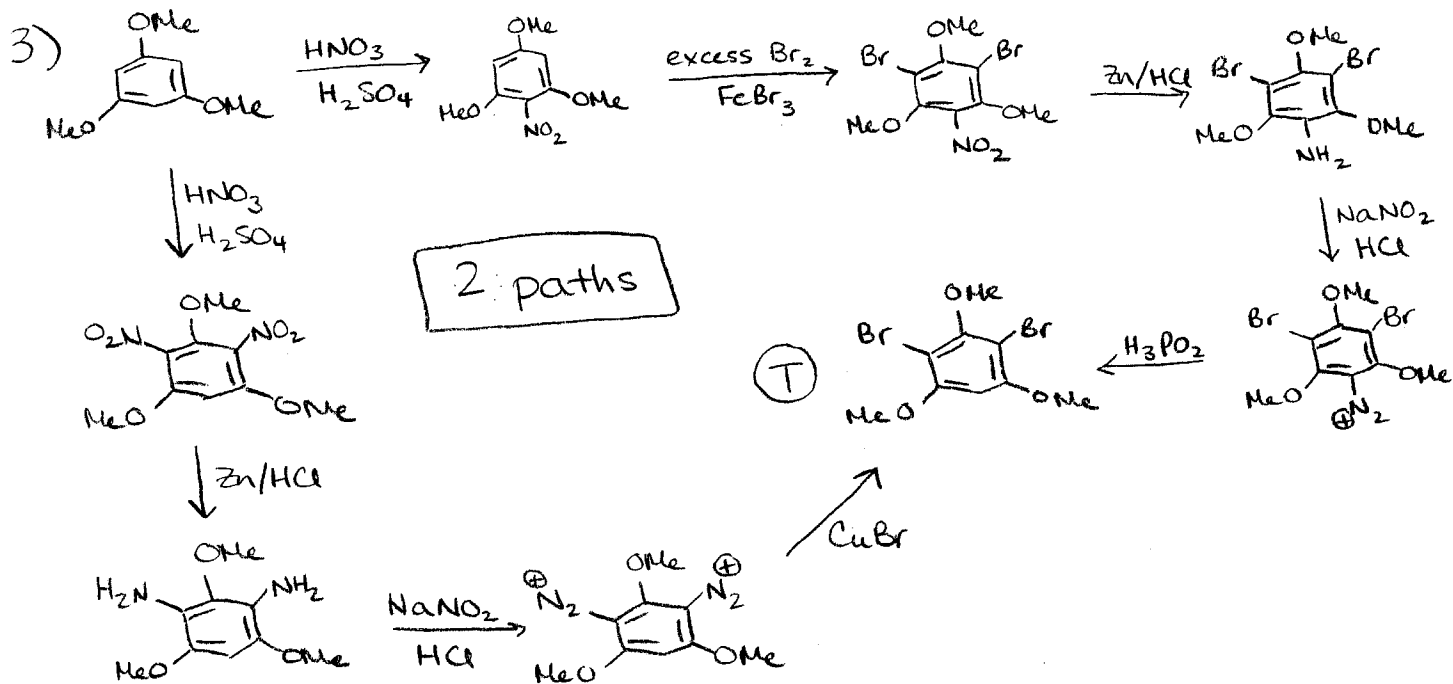
and ϕ incorporation in recovered anhydride LOW

since rxn towards carboxylic acid faster than rxn towards the anhydride



c) In the basic hydrolysis, OMe^- is a better leaving group than NH_2^- thereby getting the amide. In the acid hydrolysis, NH_2^+ is more basic than OMe^+ so that the proton gets transferred to NH_2^+ rather than OMe^+ . This proton transfer makes NH_3^+ a better LG, leaving you with the ester.

Problem Set 7 Solutions



Problem Set 7 Solutions

