

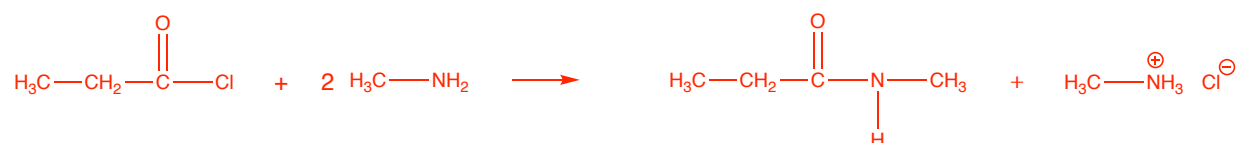


- 1 Write the balanced equation for the reaction of ethanoic anhydride with methanol.



(2)

- 2 a Write the balanced equation for the reaction of propanoyl chloride with methylamine.

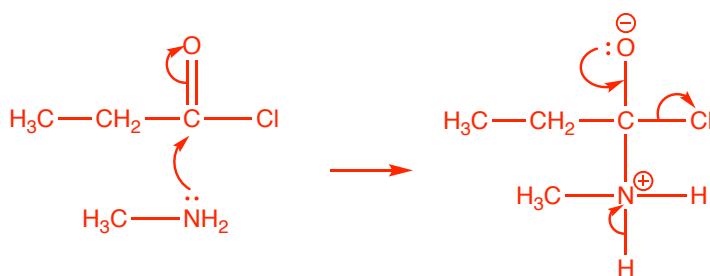


(2)

- b Name the mechanism for this reaction. **nucleophilic addition-elimination**

(1)

- c Outline the mechanism for this reaction.



(4)