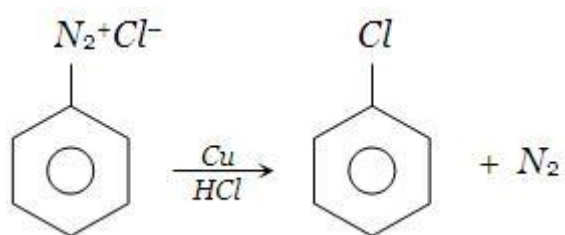
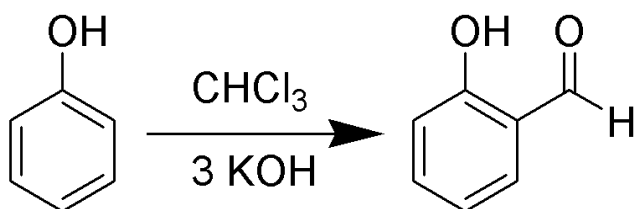


14. Write the representative reaction for the following: (5)

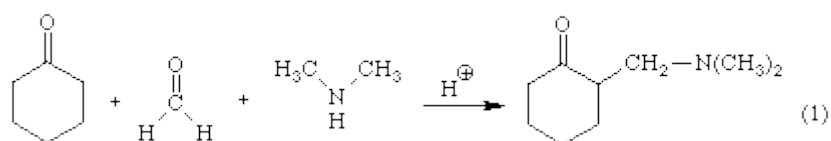
a) Sandmeyer reaction



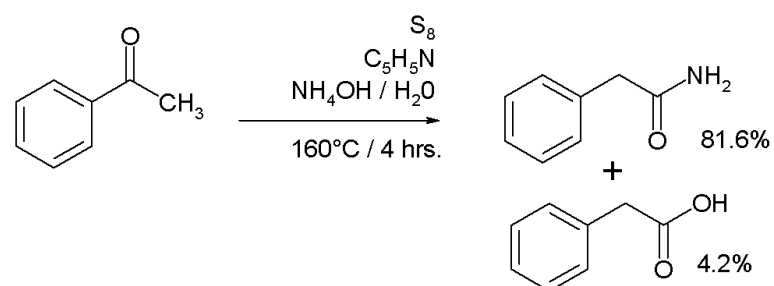
b) Reimer-Tiemann reaction



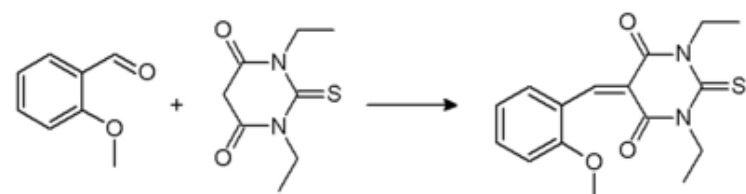
c) Mannich reaction



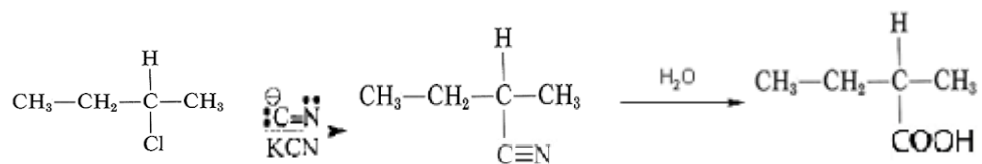
d) Willgerodt reaction



e) Knoevenagel reaction



15. i) How will you obtain 2-methylbutanoic from 2-chlorobutane?



ii) Write the mechanism of sulphonation of benzene.

