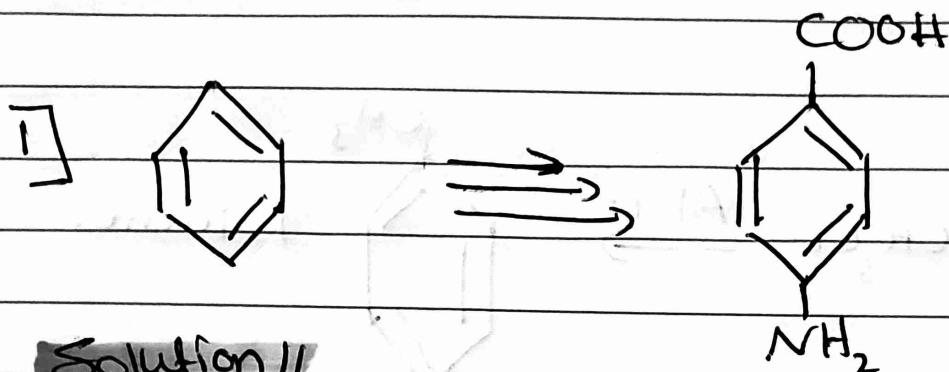
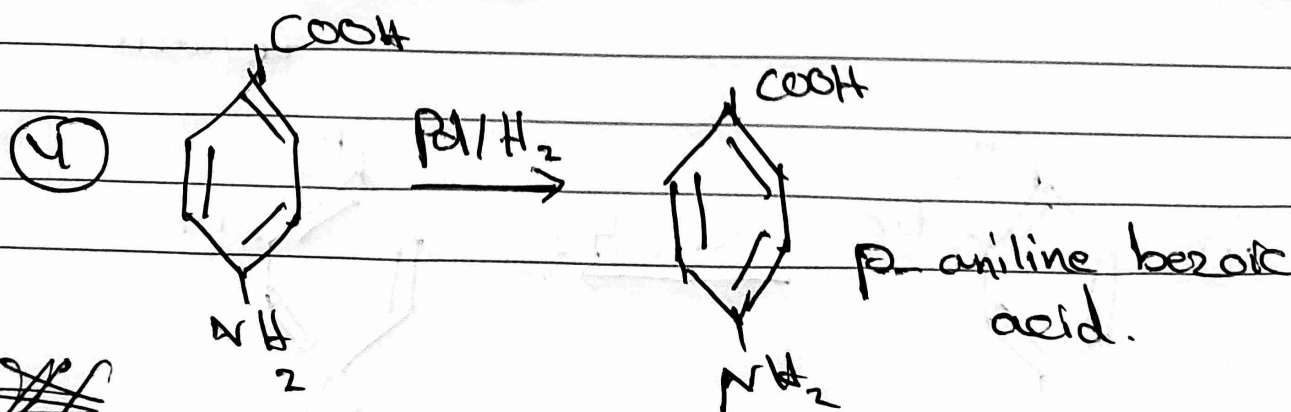
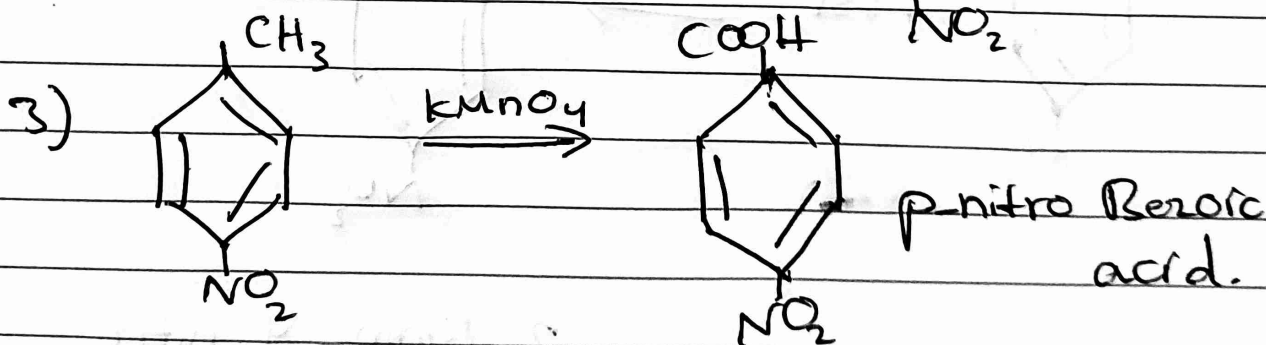
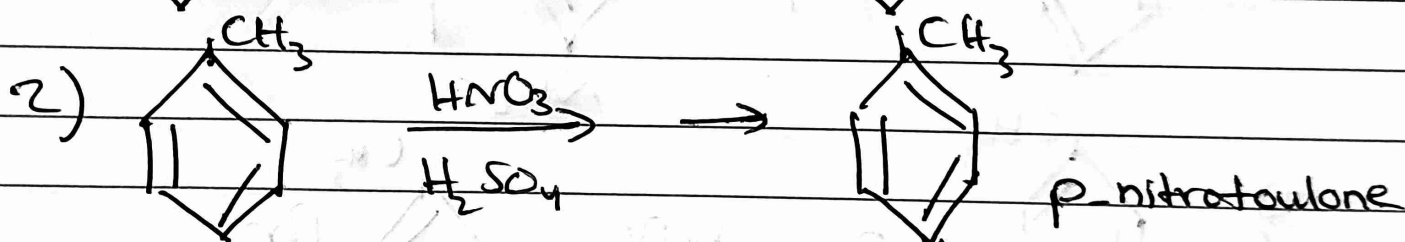
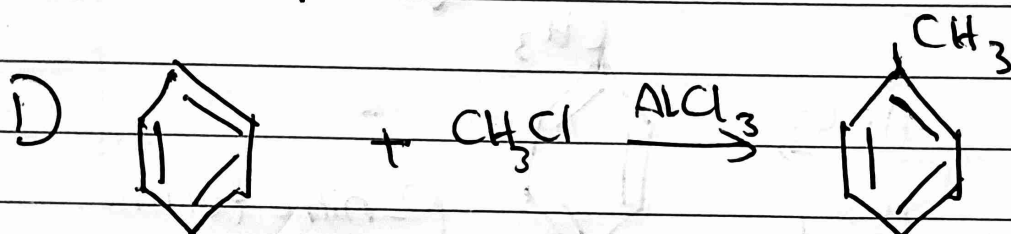


Question 1 //

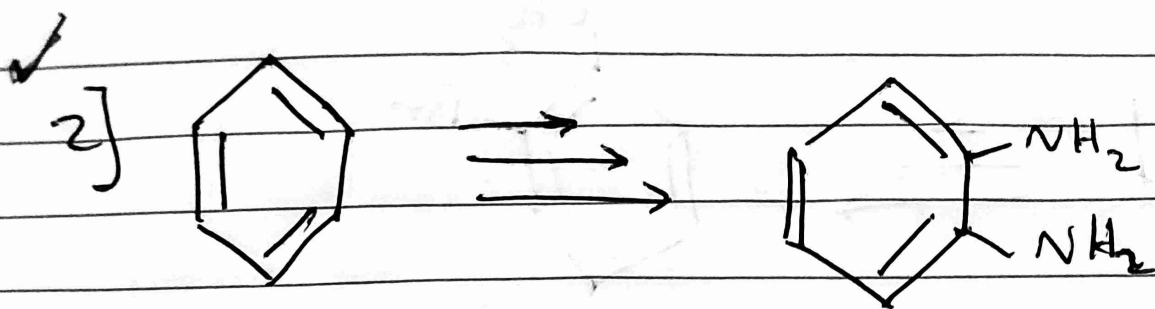
* Starting with benzene, How can you prepare the following :-



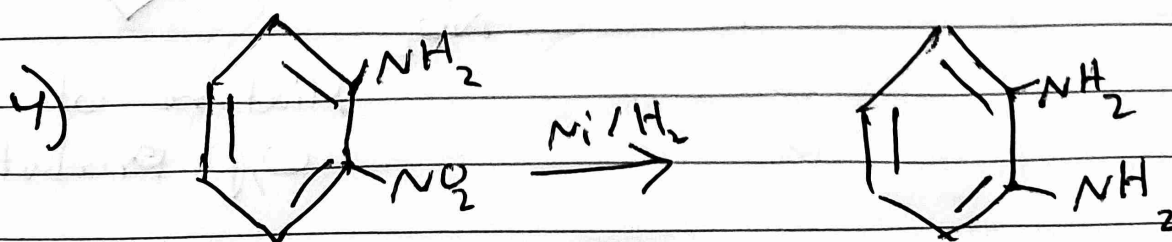
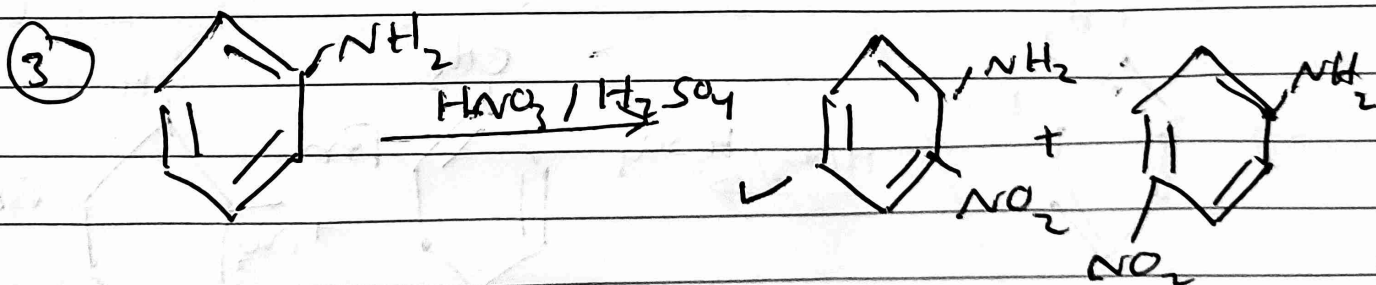
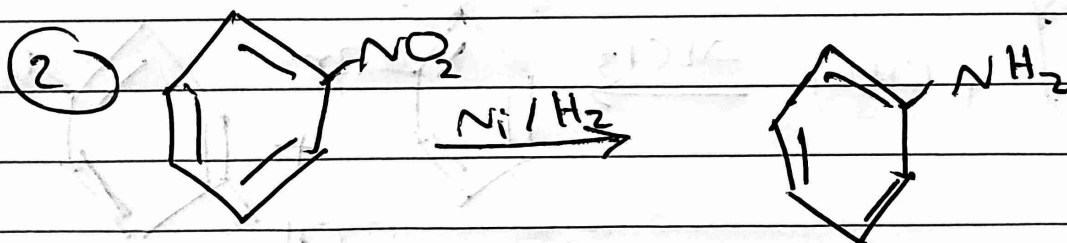
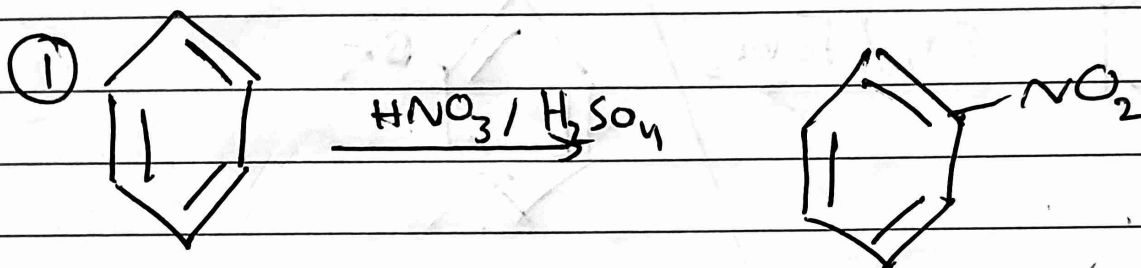
Solution //



~~5]~~

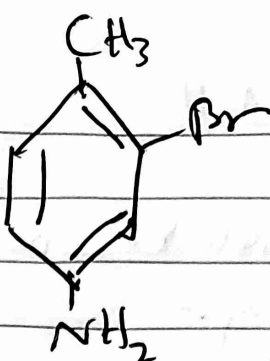
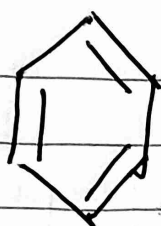


Solution II



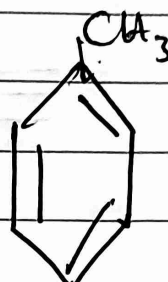
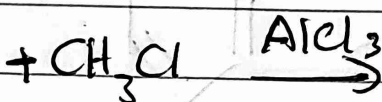
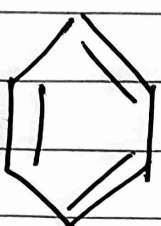
~~✗~~

3



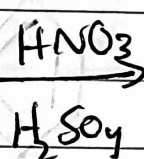
Solution//

1)



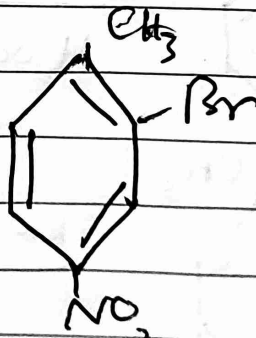
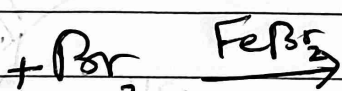
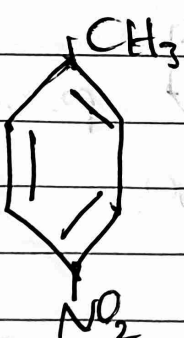
Toluene.

2)



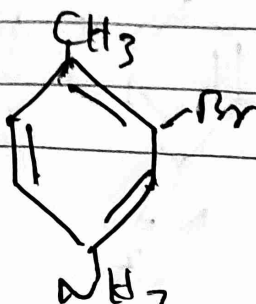
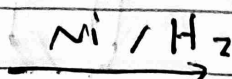
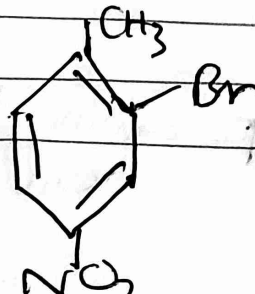
p-nitro toluene.

3)

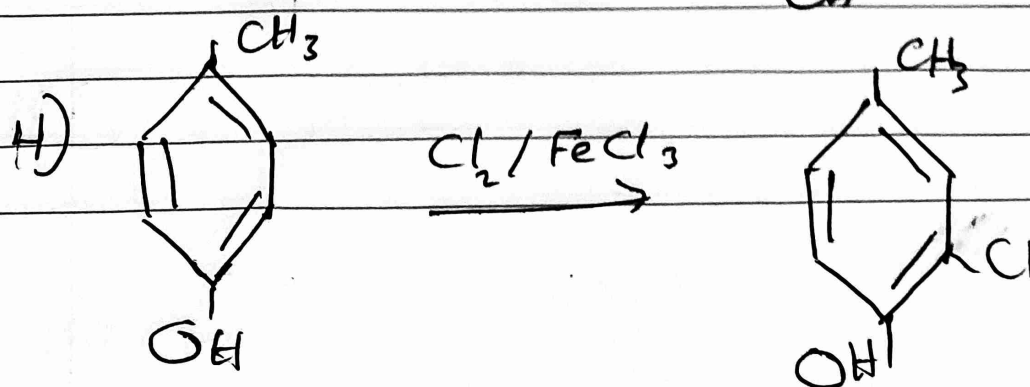
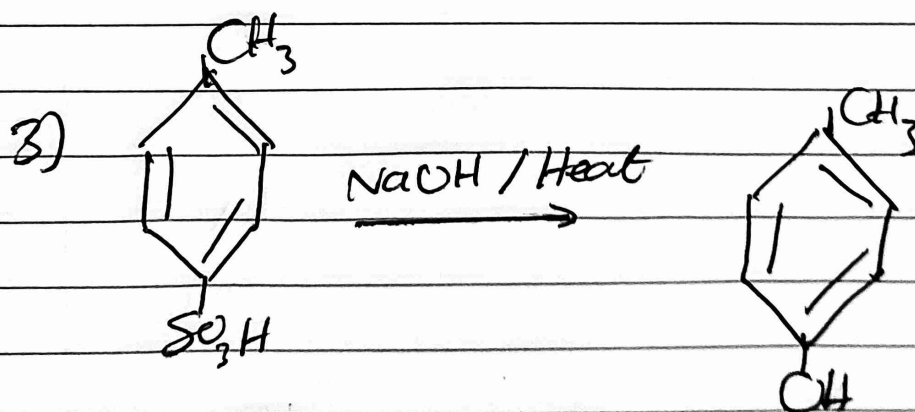
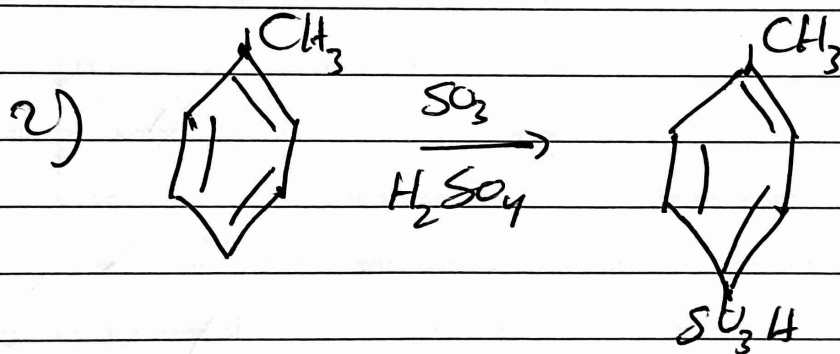
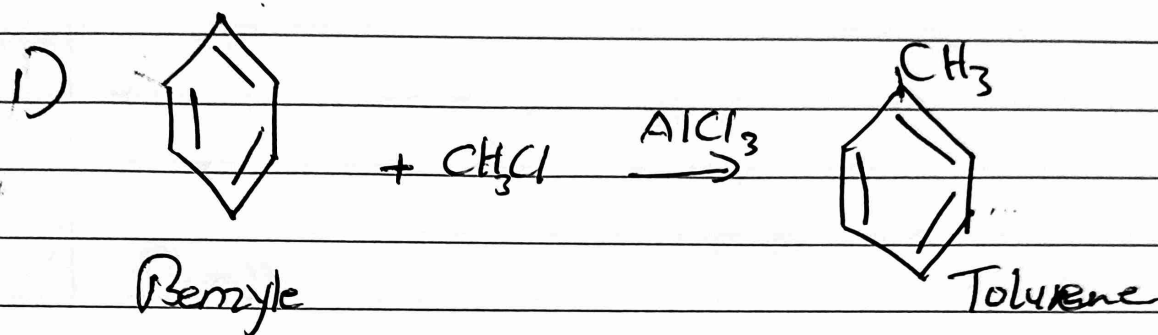
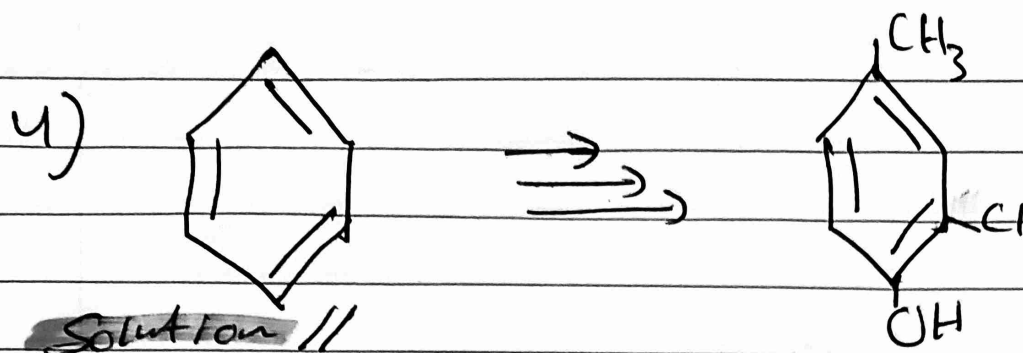


2-Bromo-4-nitro toluene.

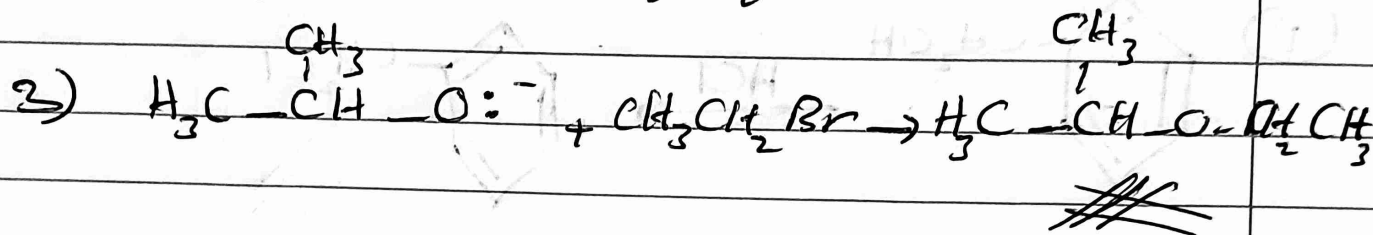
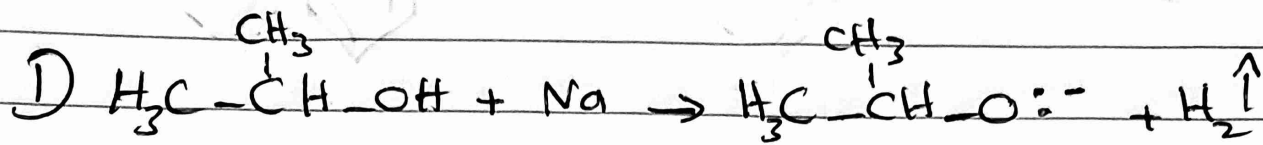
4)



~~2~~

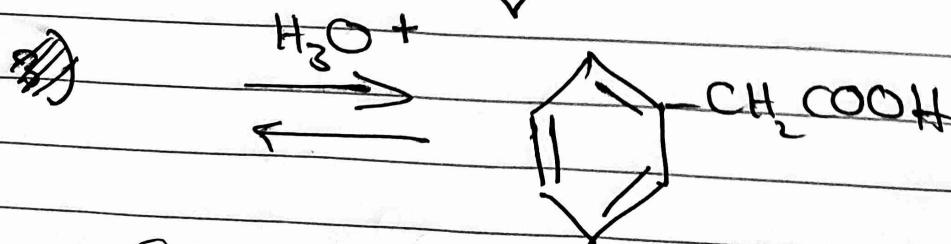
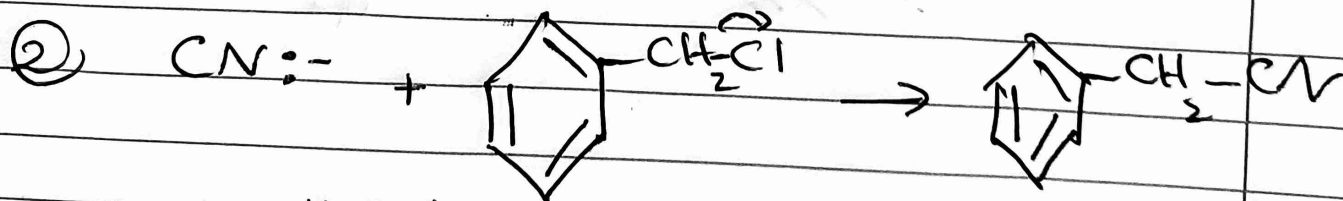
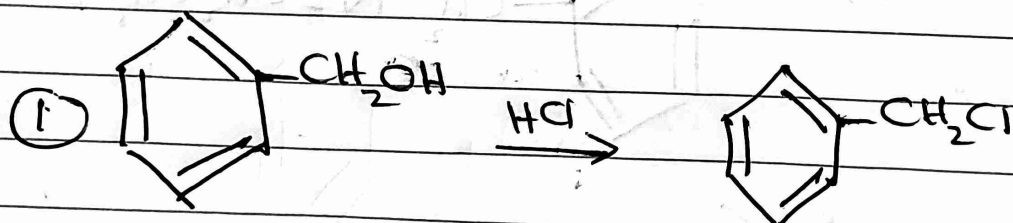


1] Any of above alcohol $\Rightarrow$ $\text{H}_3\text{C}-\overset{\text{CH}_3}{\underset{|}{\text{CH}}}-\text{O}-\text{CH}_2\text{CH}_3$
 Solution //



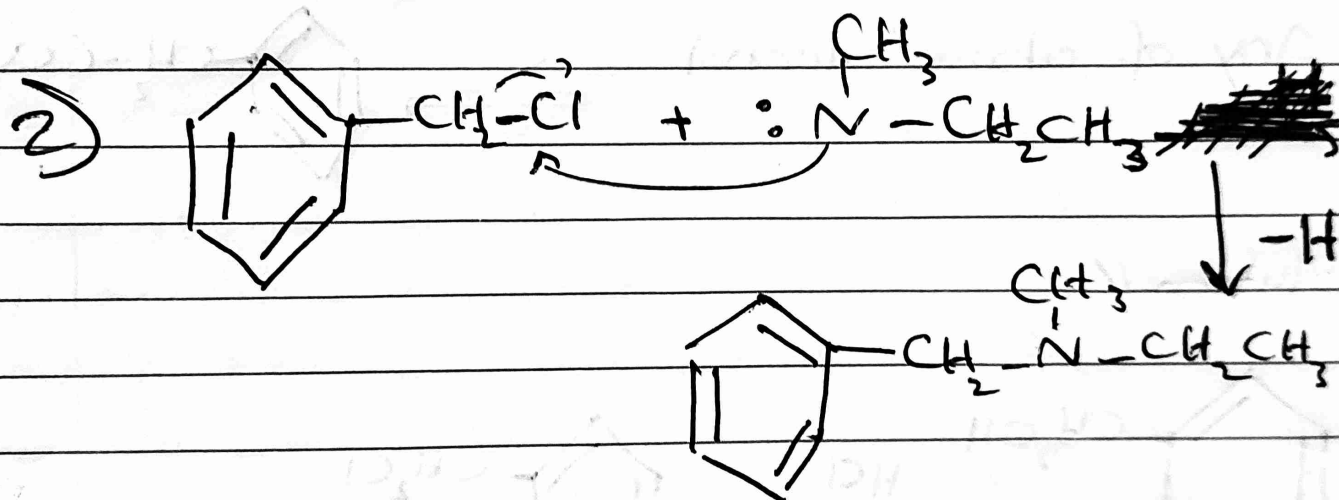
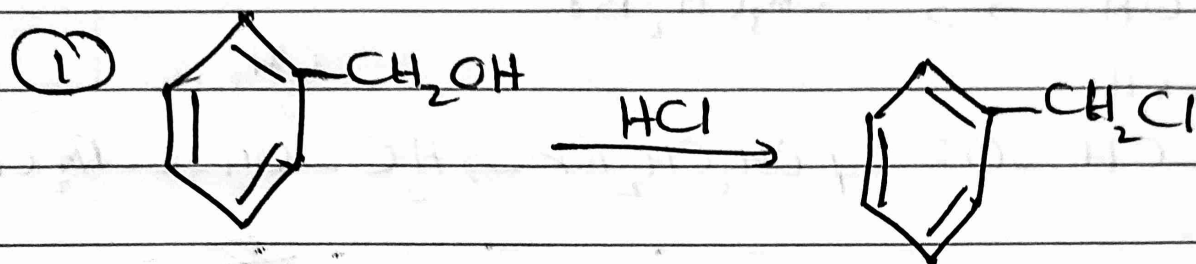
2] Any of above alcohol $\Rightarrow$ $\text{C}_6\text{H}_5-\text{CH}_2-\text{COOH}$

Solution //



✓ 3) Any of above alcohol $\rightleftharpoons$ CCN(CC)Cc1ccccc1

Solution



~~2~~