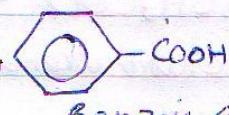
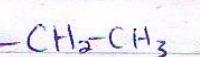
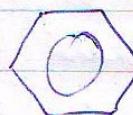
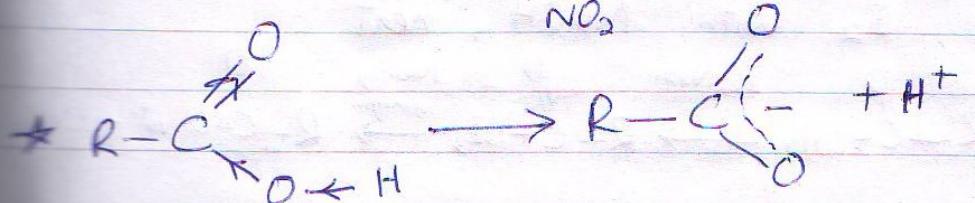
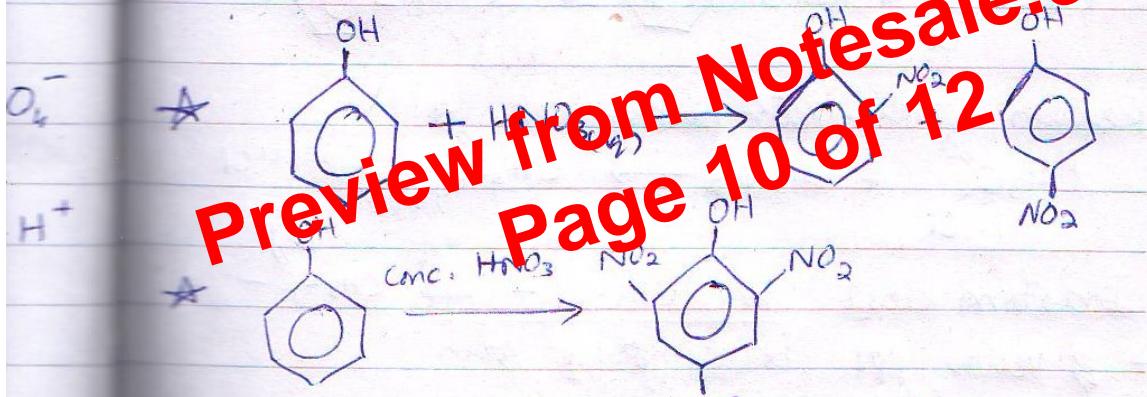
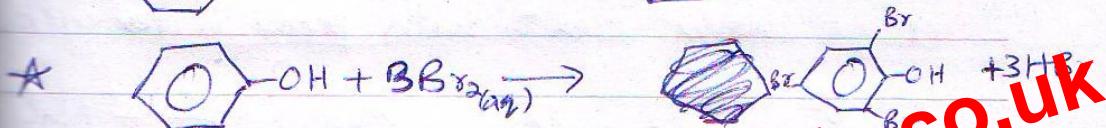
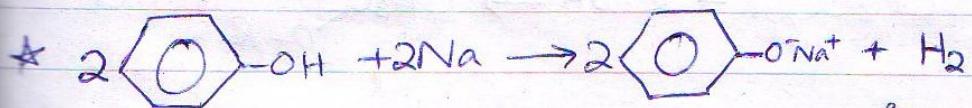
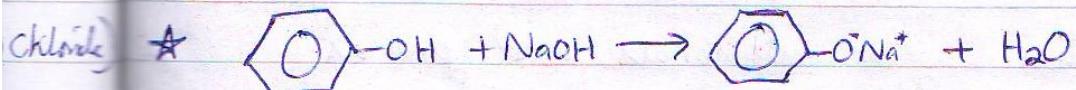
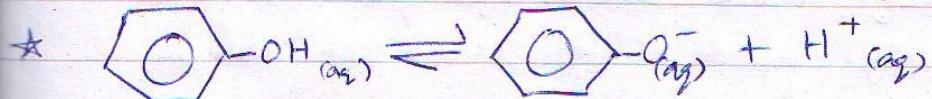


* Oxidation of side chain in arenes

+ heat and reflux with alkaline KMnO_4 or acidified

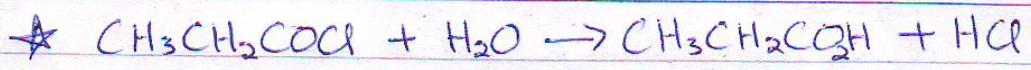
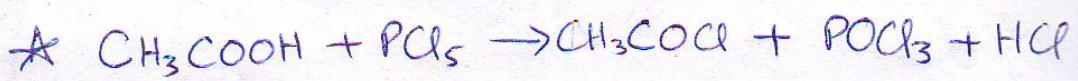


Benzoic acid



* adding Cl to R makes stronger acid

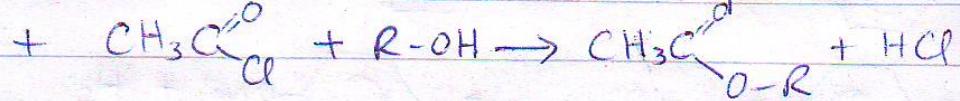
Preview from Notesale.co.uk
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+ chloroalkanes require strong alkali

+ acyl chloride can be hydrolysed with H_2O
acyl chloride > chloroalkane > acyl chloride

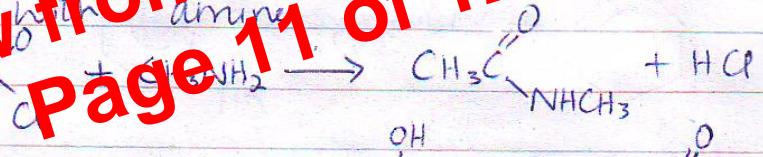
* Reaction with alcohols and phenol



+ acyl chlorides react with phenol in presence of base



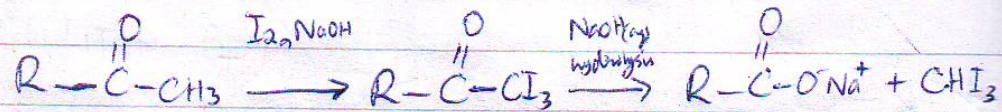
* Reaction with amine



* Iodofrom test for $\text{CH}_3-\text{CH}-$ and $\text{CH}_3-\text{C}-$

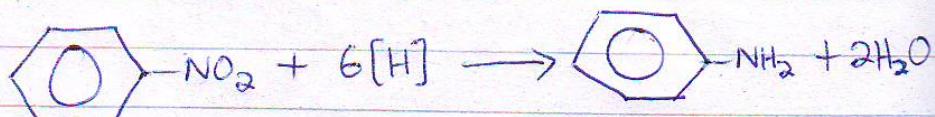
+ yellow ppt. is a positive sign

+ I_2 with NaOH , heat



* Preparing phenylamine

+ Sn + conc. HCl , heat



+ steam distillation to separate phenylamine