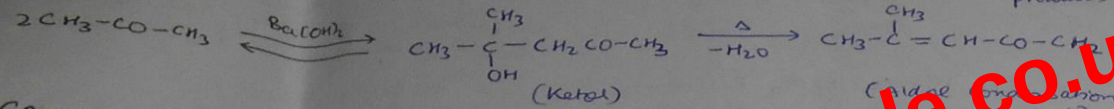
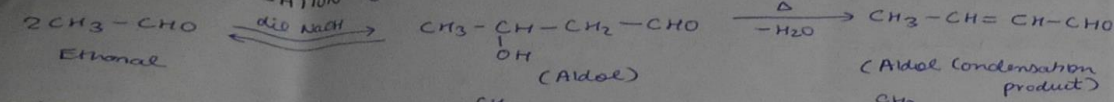
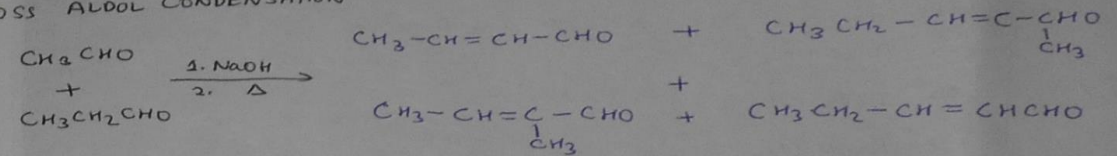


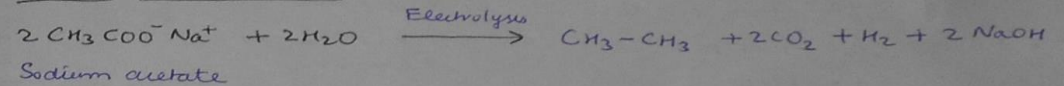
ALDOL CONDENSATION (At least one α -H)



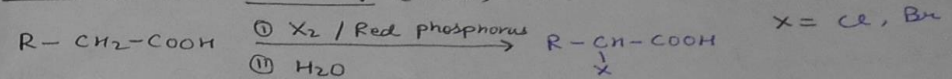
CROSS ALDOL CONDENSATION



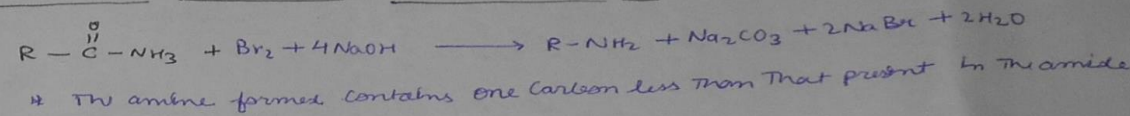
KOLBE ELECTROLYSIS



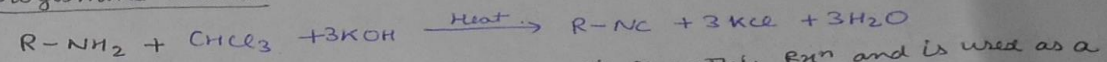
HELL-VOLHARD - ZELINSKY (HVZ) Rxn.



HOFFMANN BROMAMIDE DEGRADATION Rxn

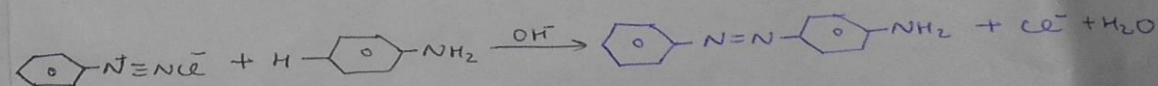
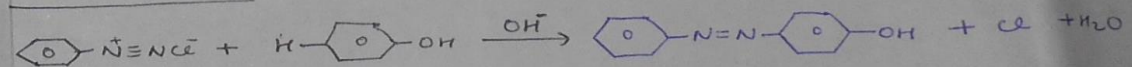


Carbylamine Reaction

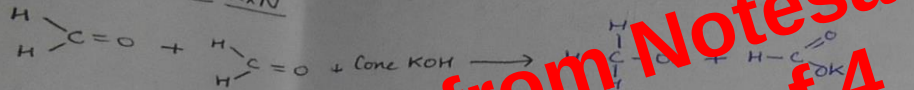


NOTE: Secondary and Tertiary amines do not show this Rxn and is used as a test for primary amines.

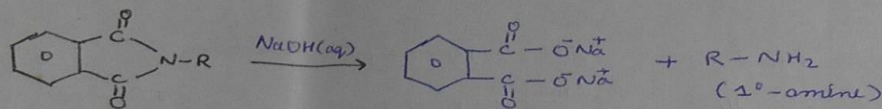
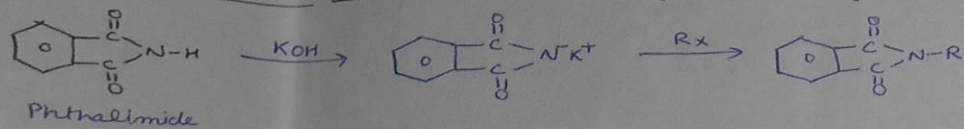
Coupling Rxn:-



CANNIZZARO Rxn

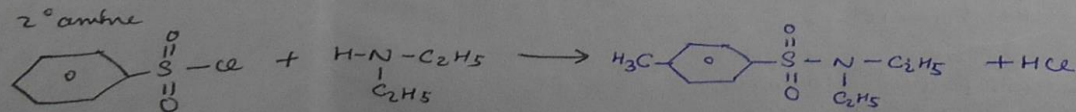
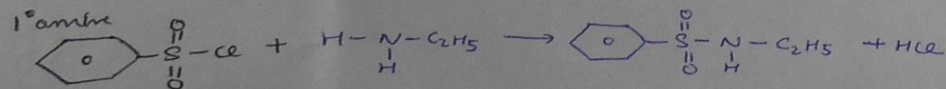


GABRIEL PHTHALIMIDE SYNTHESIS (Preparation of pure primary amine)



NOTE: Aromatic primary amines cannot be prepared by this method. Because aryl halides do not undergo nucleophilic substitution with the anion formed by phthalimide.

HINSBERG'S TEST ($\text{C}_6\text{H}_5\text{SO}_2\text{Cl}$) $\rightarrow$ Benzenesulphonyl chloride.



3^o amine $\rightarrow$ does not react.

NOTE: This test is used for the distinction of primary, secondary and tertiary amines and also for the separation of a mixture of amines. However benzenesulphonyl chloride $\rightarrow$ p-toluenesulphonyl chloride

Preview from Notesale.co.uk
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