

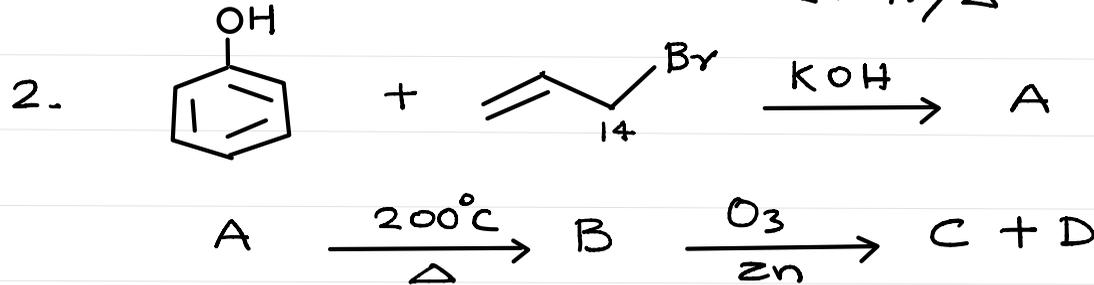
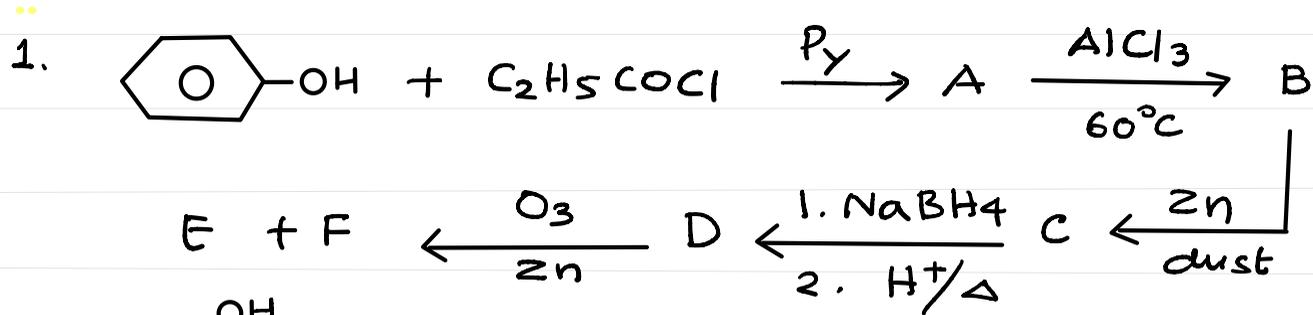
Home Worksheet-2

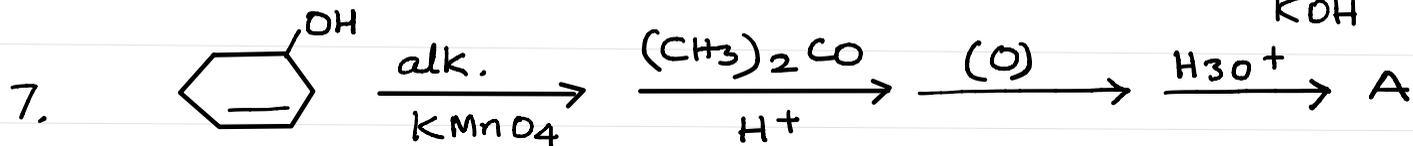
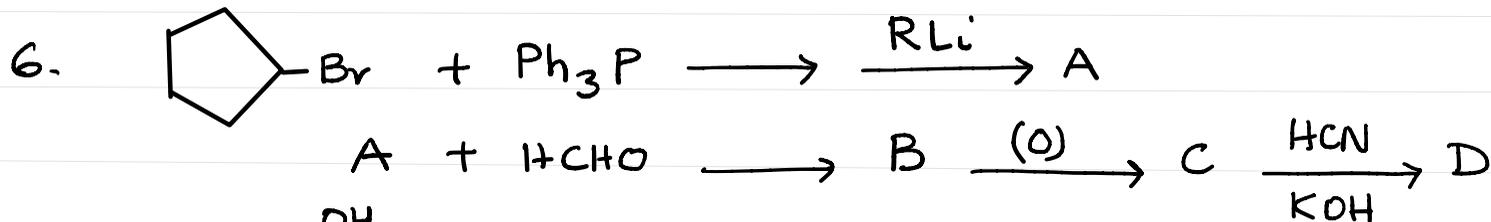
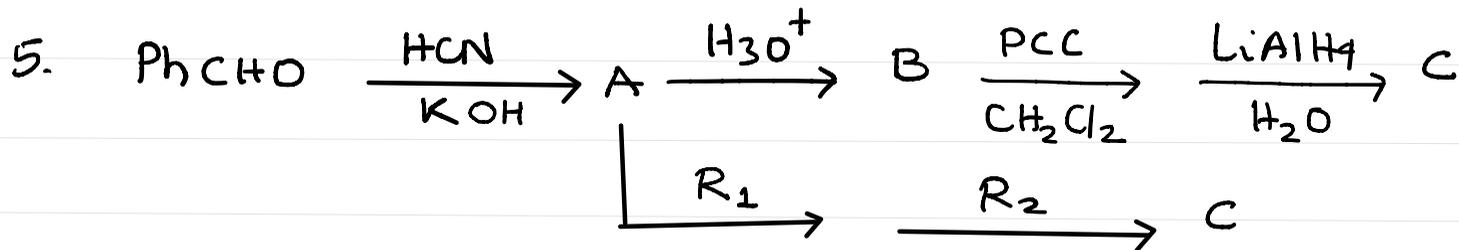
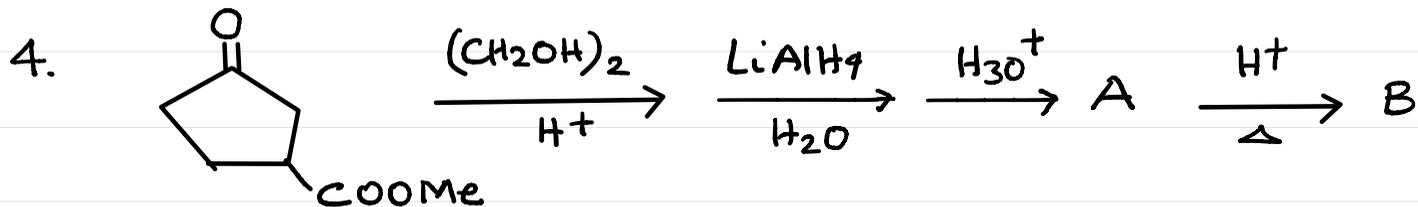
Class-2-OCOC-II

Reactions of Aldehydes & Ketones

I. Typical (Direct) Nucleophilic Addition :

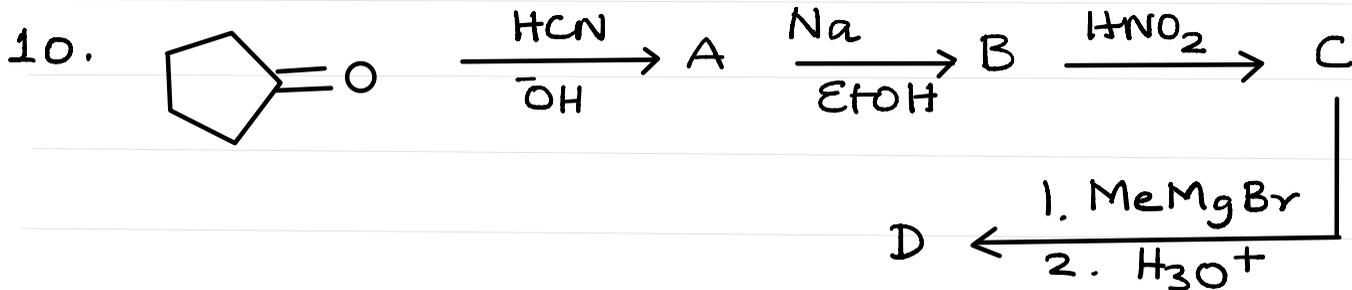
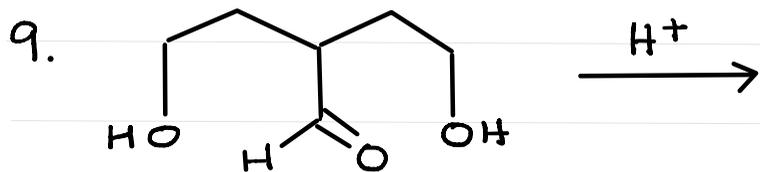
1. Of Hydride ion (H^-) : LiAlH_4 / ether or NaBH_4 / H_2O
2. Of Alkynide ion ($\text{R}-\text{C}\equiv\text{C}^--\text{Na}^+$)
3. Of $\text{H}_2\text{O}/\text{H}^+$ (Hydration)
4. (a) Of ROH/H^+ (b) Of Glycols (c) Of 1,3 Diols
5. Of HCN/KOH
6. Of NaHSO_3 (Bisulphate addition)
7. Of Grignard Reagent
8. Of Ylides (Wittig Reaction)
9. Of Ammonia & its derivatives
 - (a) of ammonia
 - (b) of Amines (RNH_2 & RNHR)
 - (c) of special derivatives (NH_2Y)
 - (d) Reductive amination







Identify Reagents R_1 , R_2 & R_3 .



A wooden clothespin is attached to a piece of light-colored paper with a red and blue striped border. The paper is pinned to a dark wooden surface. The words "THANK YOU" are written in a bold, black, sans-serif font on the paper.

THANK YOU