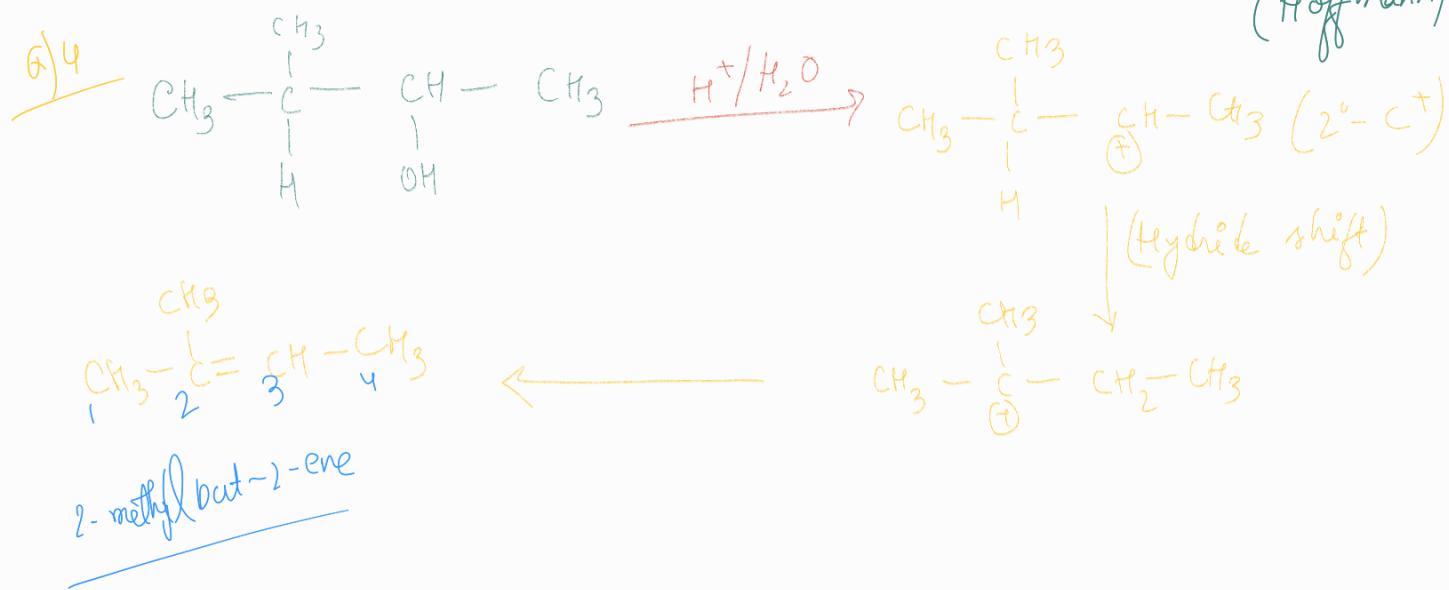
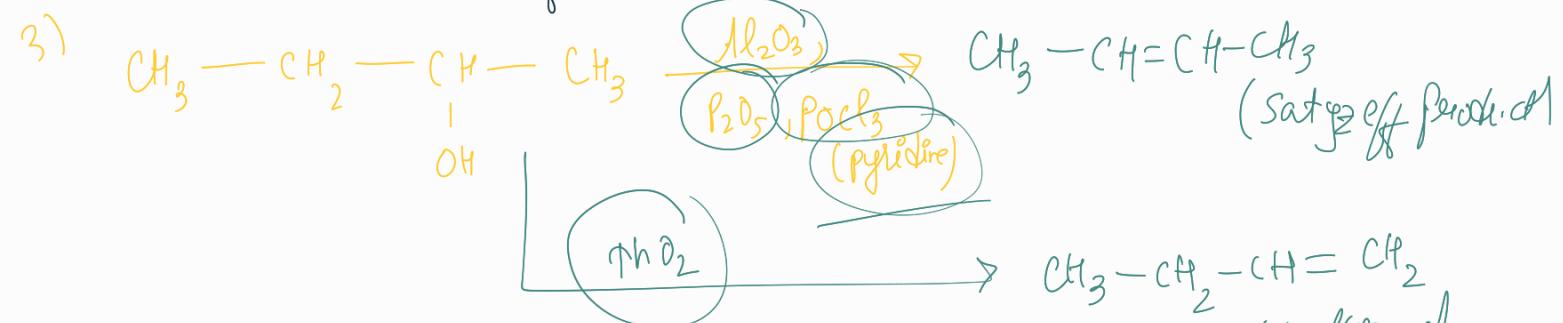
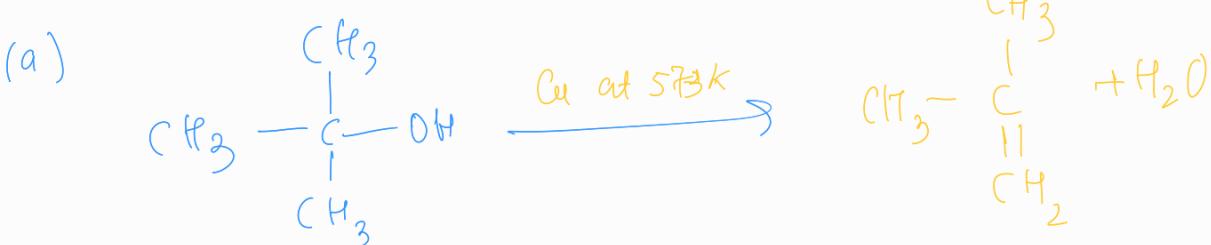
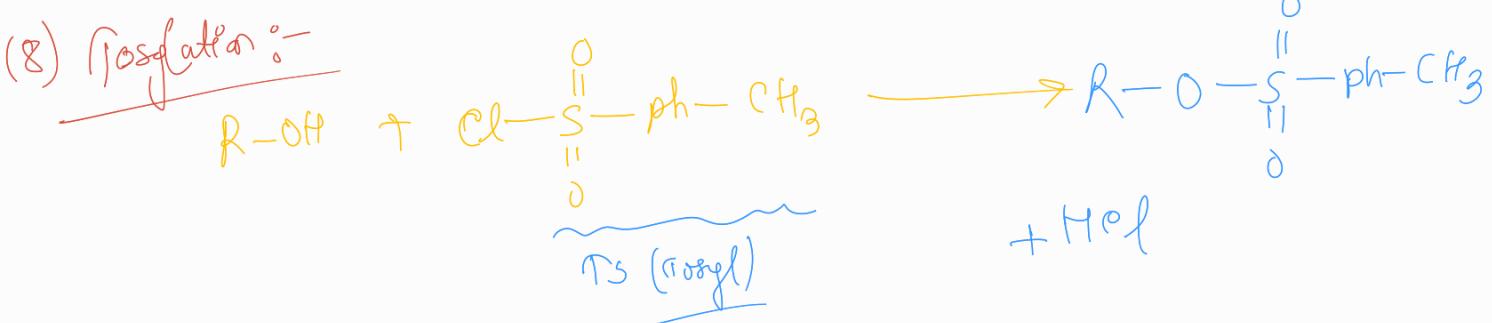
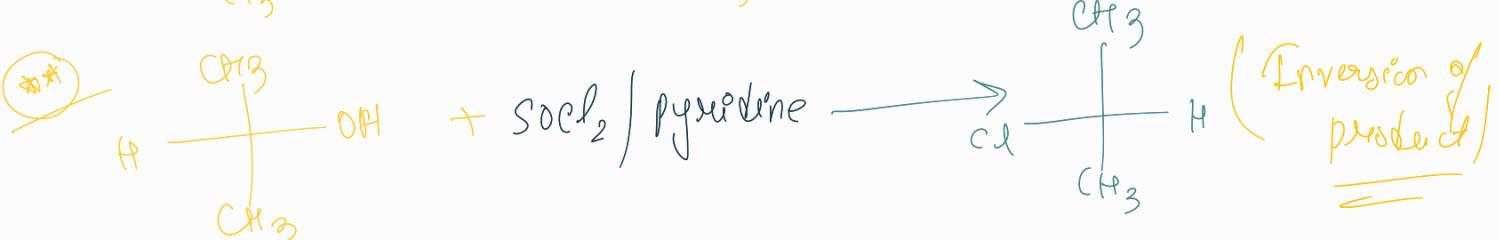
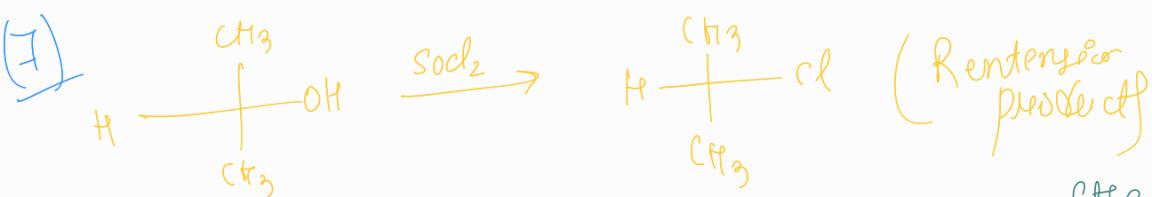


(2) Dehydration follows in 3 step :-

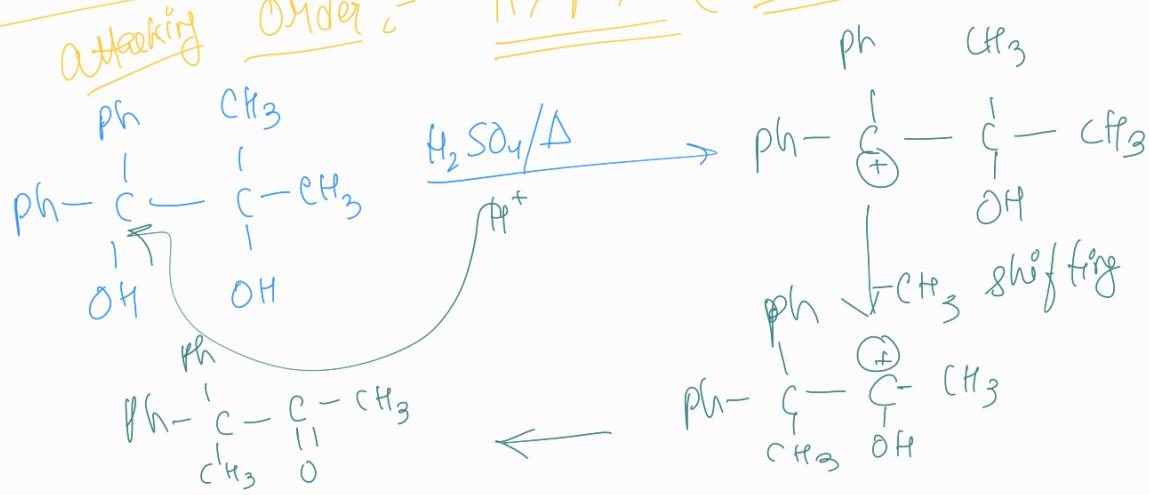
- Formation of protonated - OH
- Formation of  $\overset{\oplus}{C}$
- Formation of alkenes (Satzeff, Mayo)

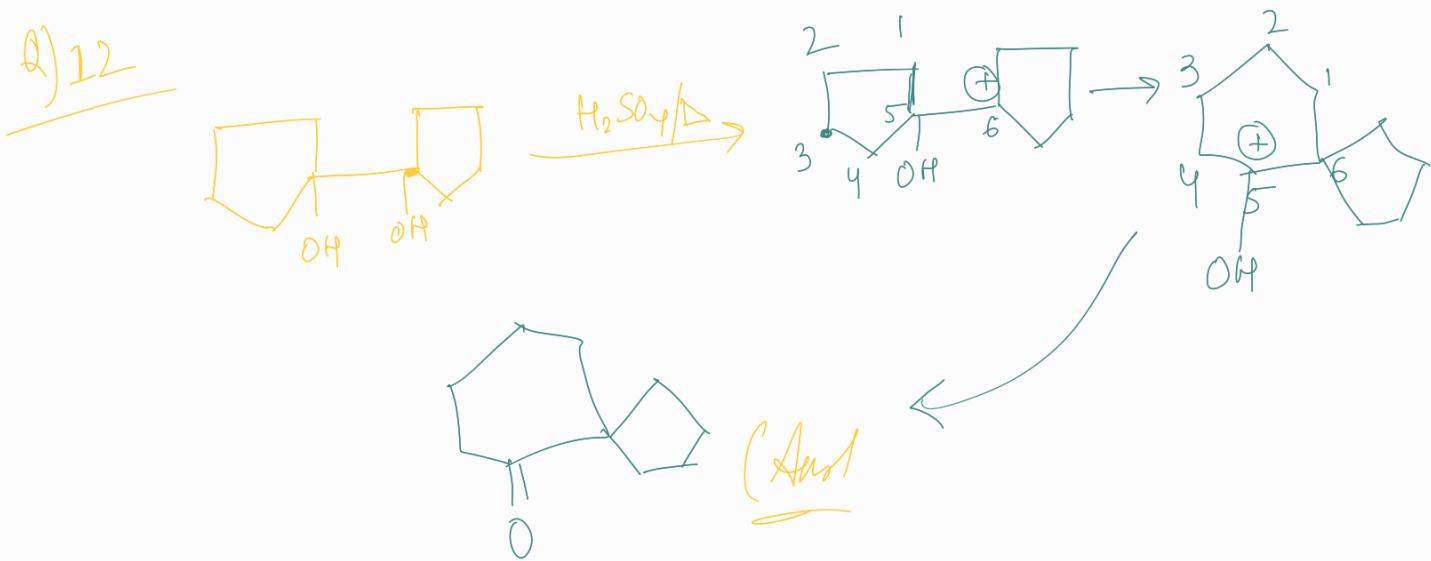
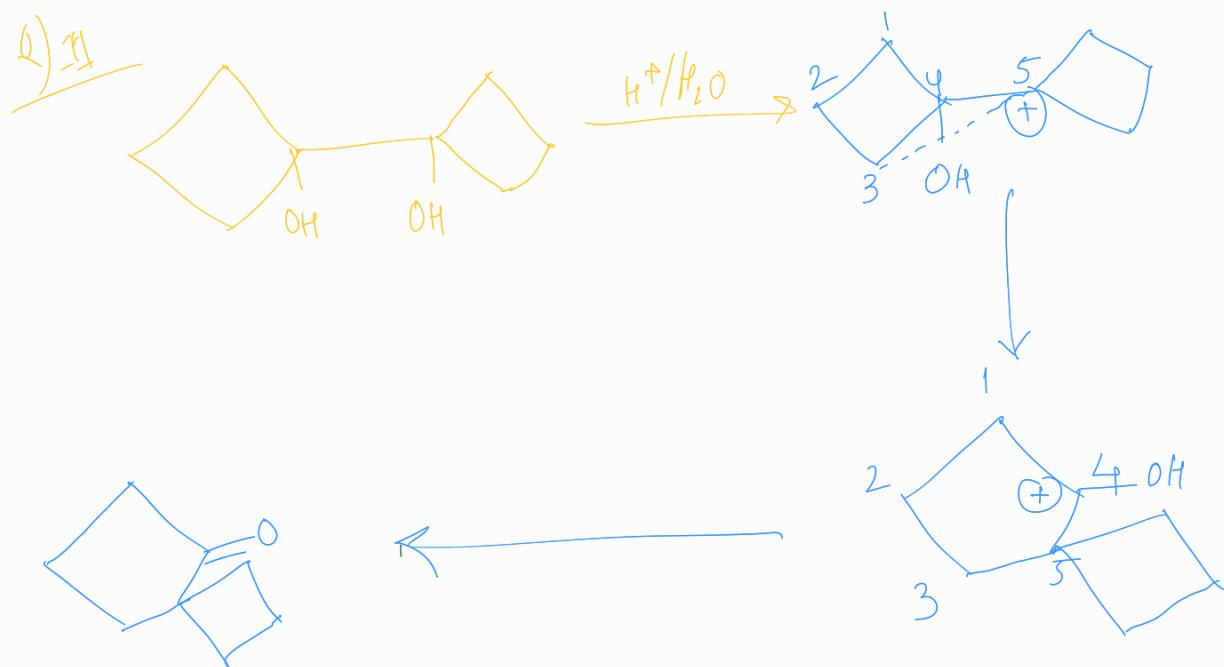


## Ring Expansion

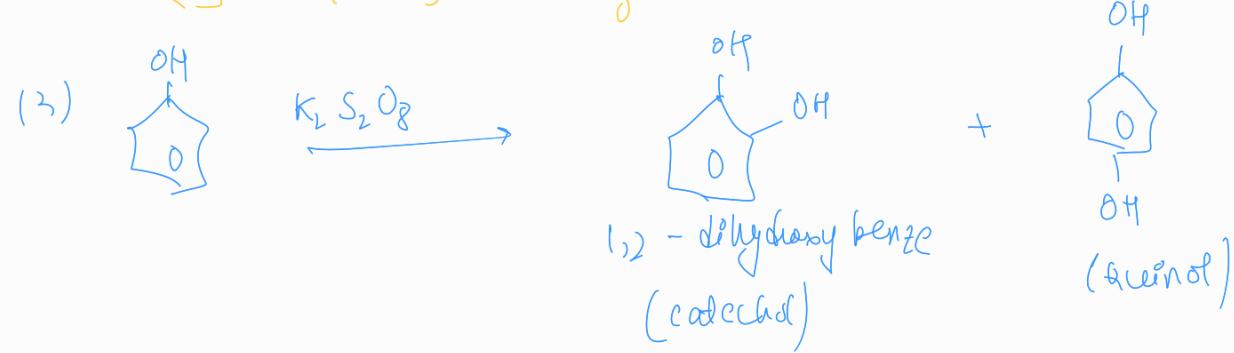
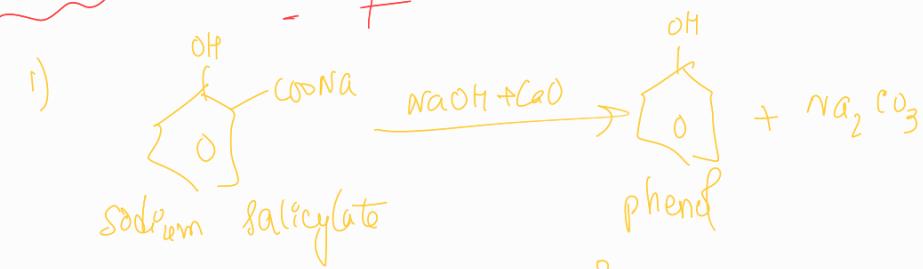


## Pinacol-Pinacolone Rearrangement

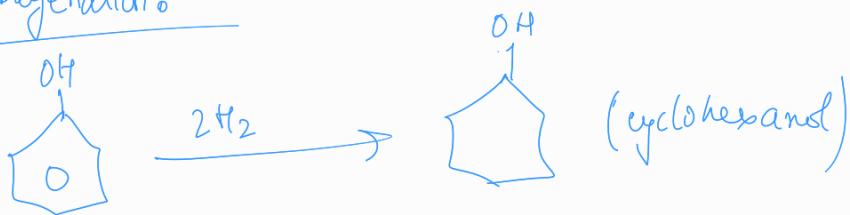




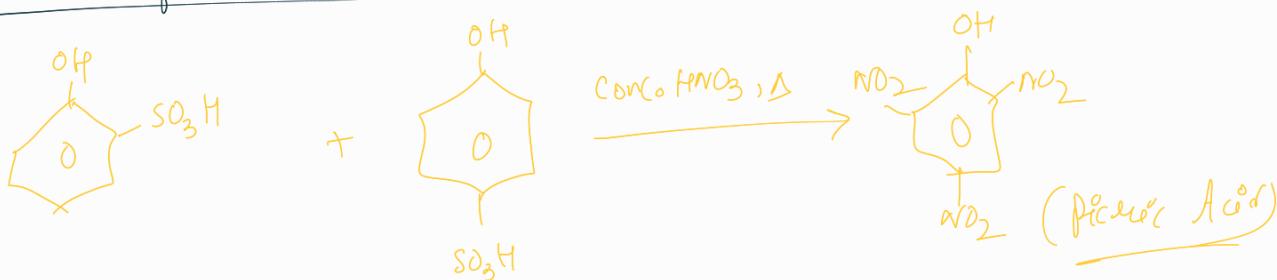
Phenol (few important chemical rxns)



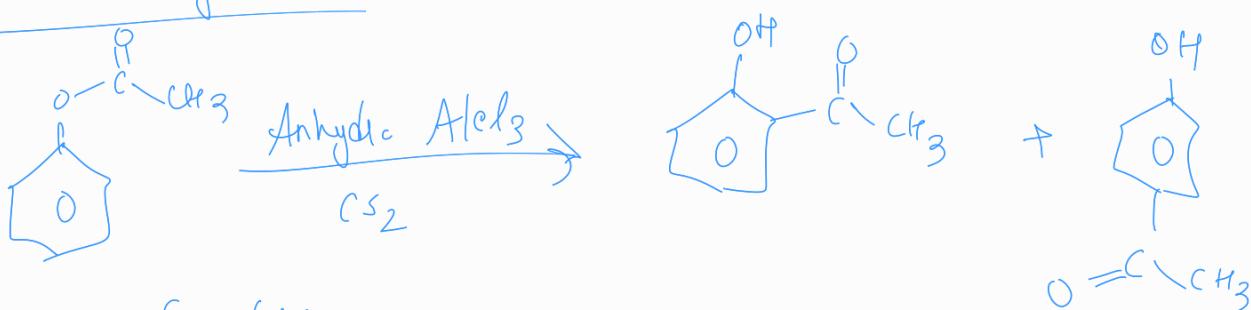
4) Hydrogenation :-



5) Formation of picric Acid, followed by sulphonation →



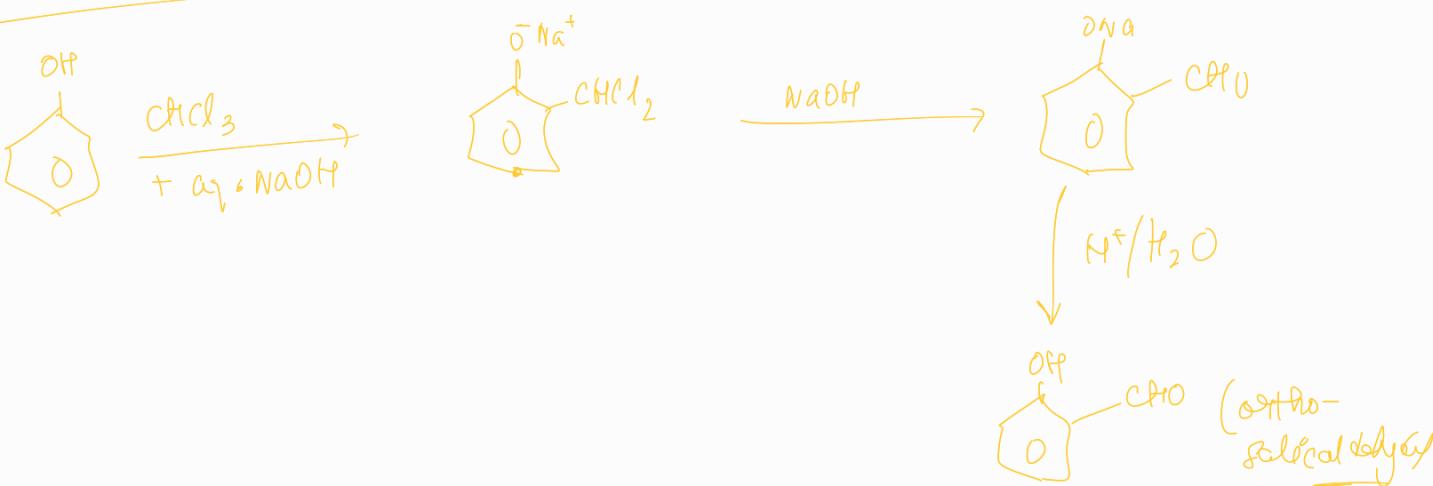
6) Fries Rearrangement :-



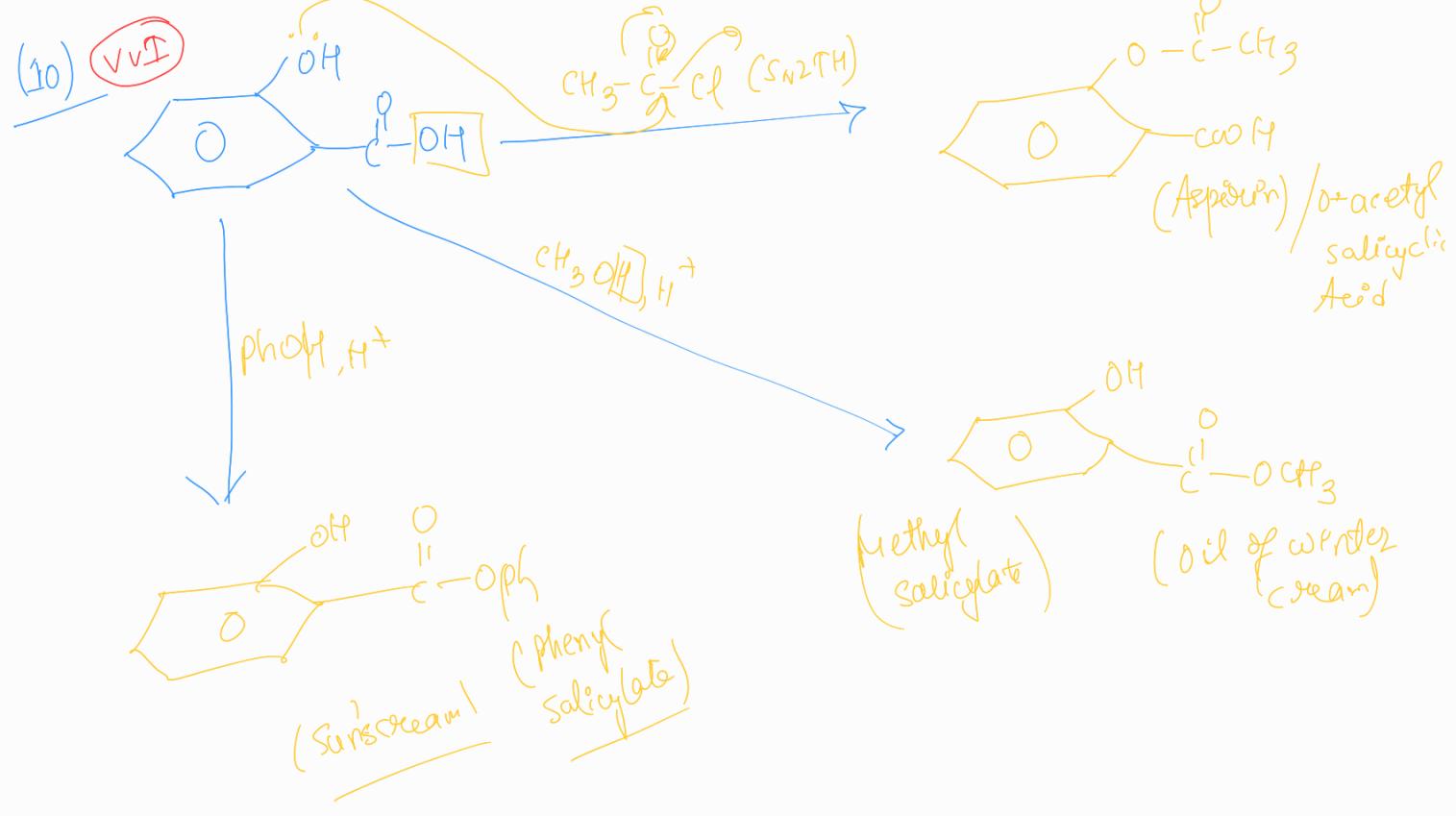
7) Gattermann Formylation :-



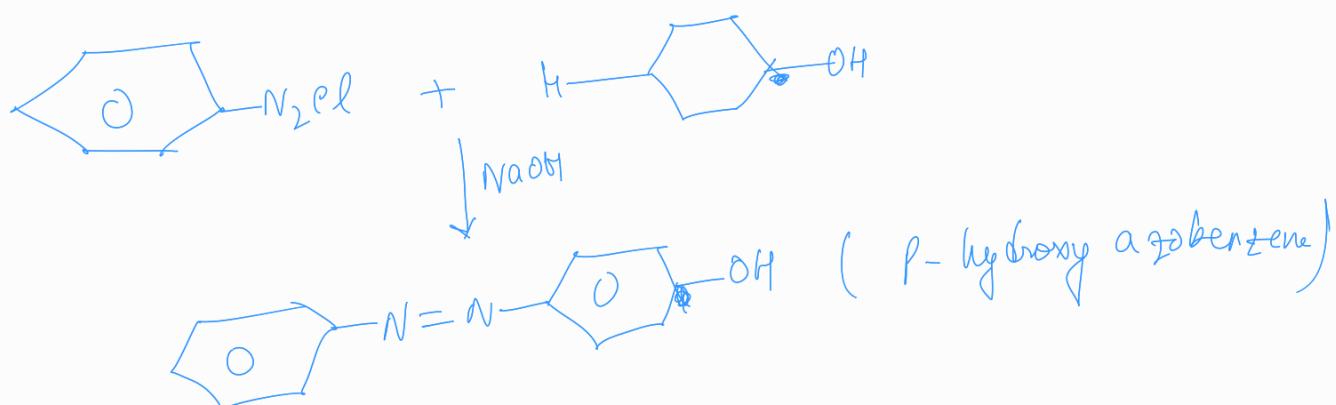
8) Retzner-Tiemann Reaction :- (Electrophilic Reac<sup>n</sup>)



(9) Kolbe's Rxn :- (electrophilic substitution Rxn)



(11)



(12) phthalic Reac<sup>r</sup> :-

