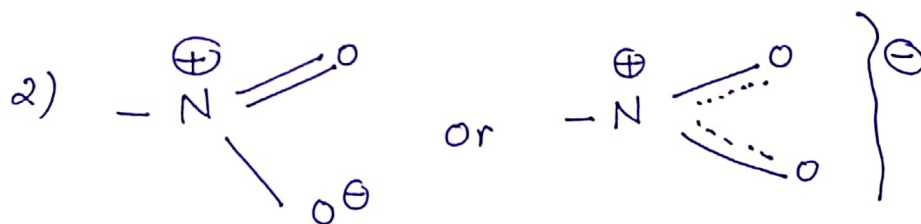
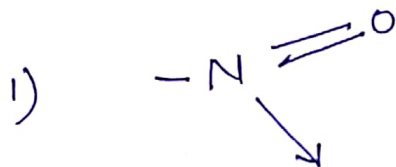


Organic compounds of $\rightarrow N$

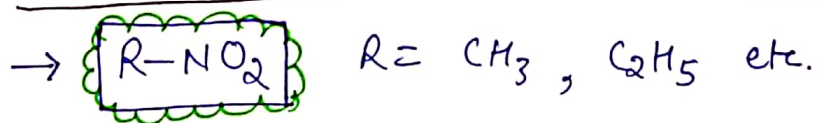
- ① Nitroalkanes (Aliphatic Nitro compound)
- ② Nitroarenes (Aromatic Nitro compound)
- ③ Amines (Both)

Nitro compound \rightarrow Min \pm $-NO_2$ group (Hint).

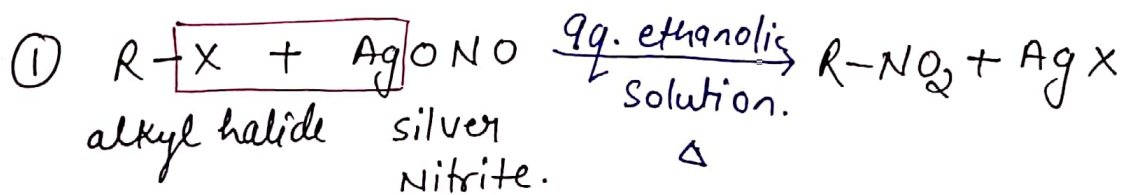
Structure of Nitro group



1) Nitroalkane or Aliphatic Nitro compound



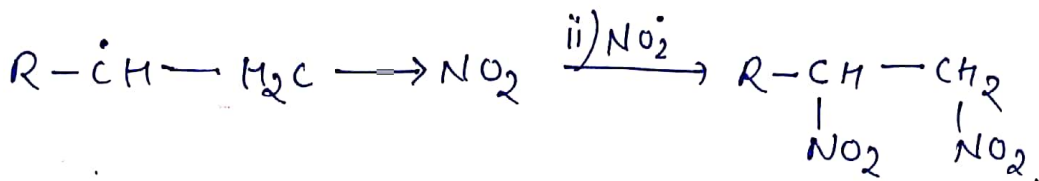
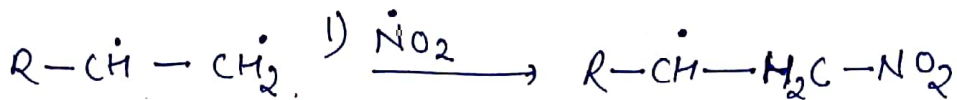
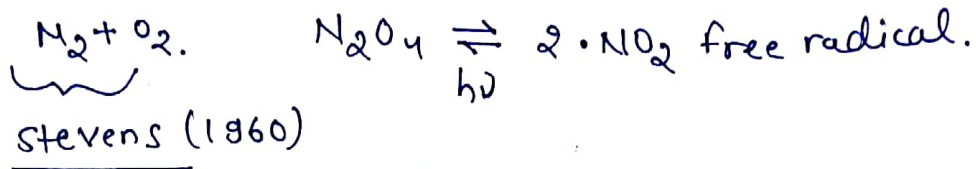
General methods of preparation.



\rightarrow Nucleophilic subⁿ reactⁿ.

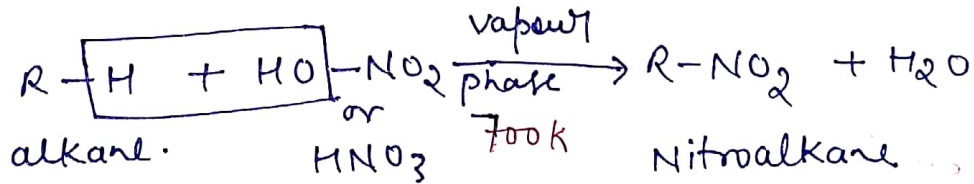
\rightarrow useful for the preparation of 1^o Nitroalkane.

④ Addition of Nitronium f.R on alkene.



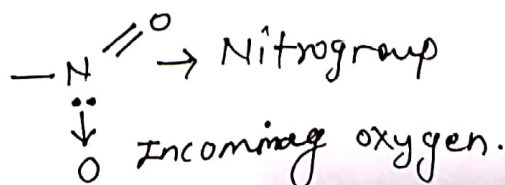
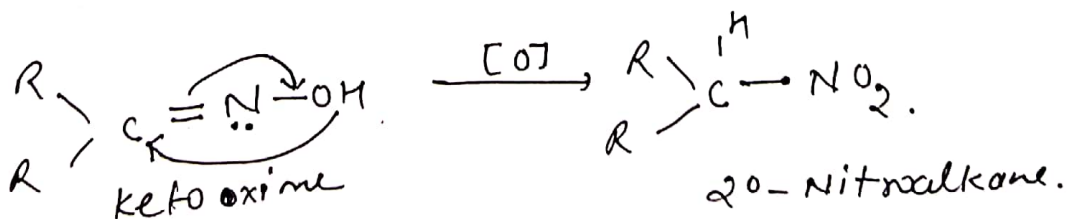
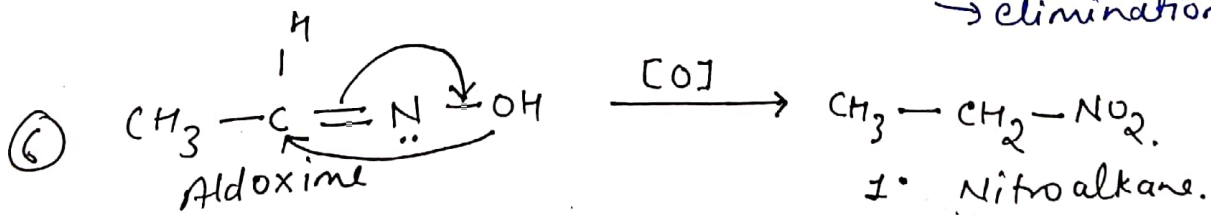
dinitro compounds

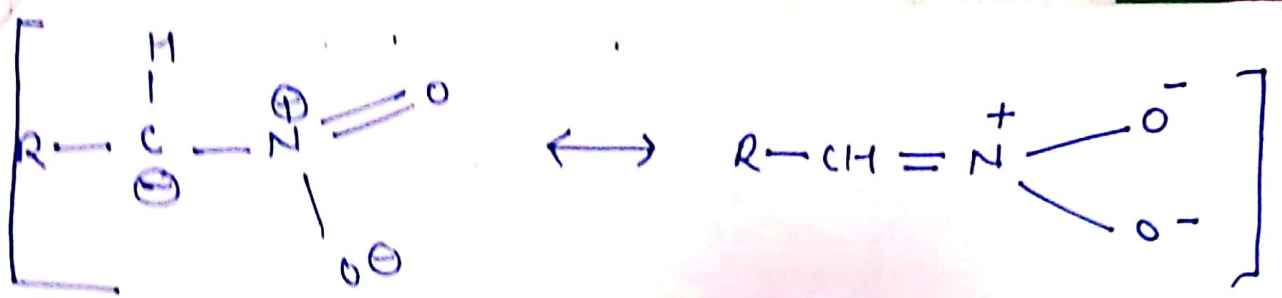
⑤ Nitration of alkanes :-



→ Subⁿ type react.

→ condensation → addition
 → elimination.

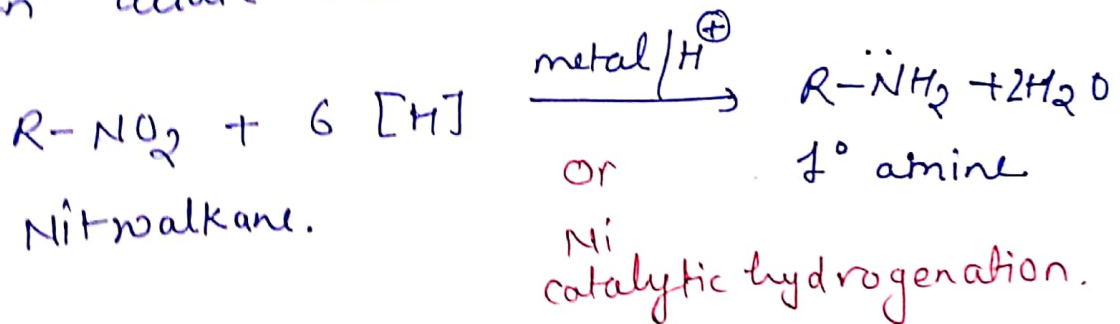




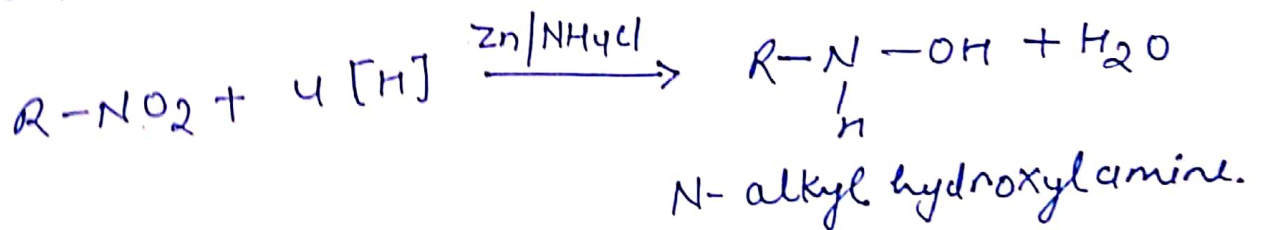
Resonance
Stabilised

2) Reduction \rightarrow product depends on Reagent.
means under different condition
give different product.

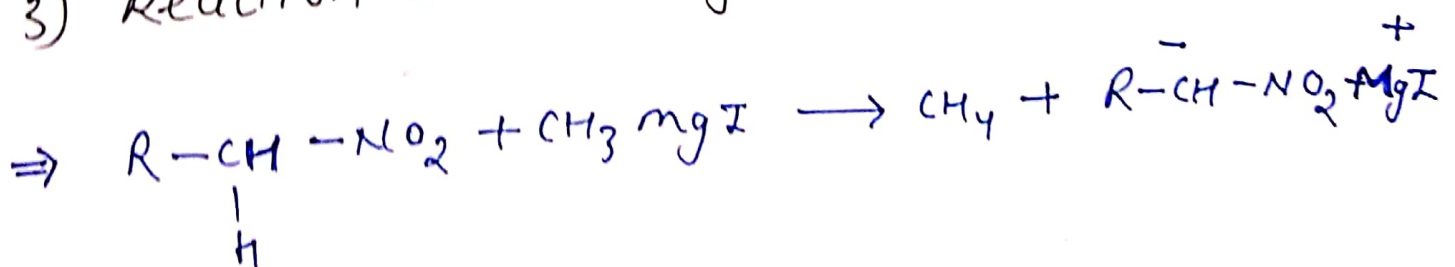
1) In acidic medium.

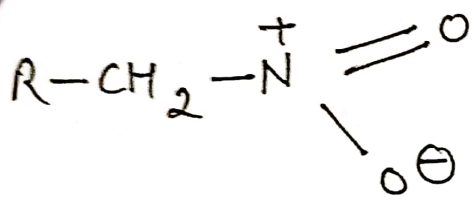


2) In neutral medium

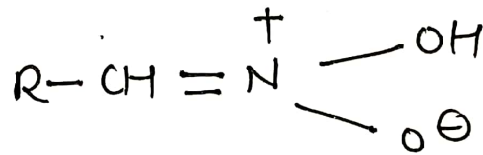
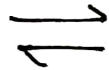


3) Reaction with R-Mg-X

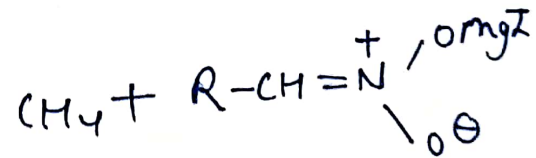
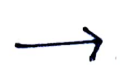
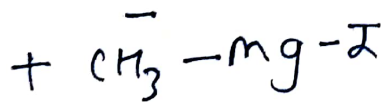
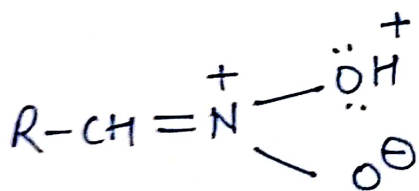




Nitro form



Acinitro form.



methane.