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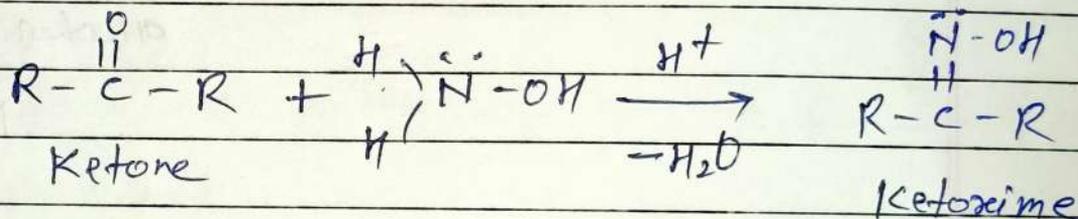
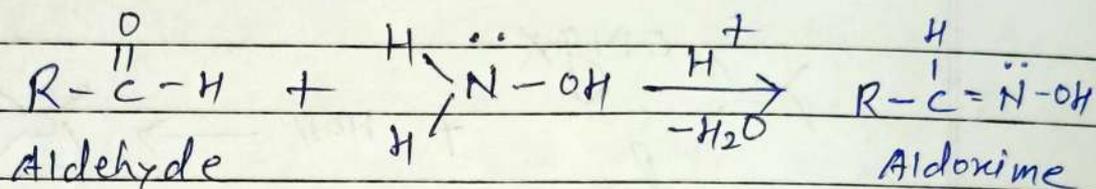
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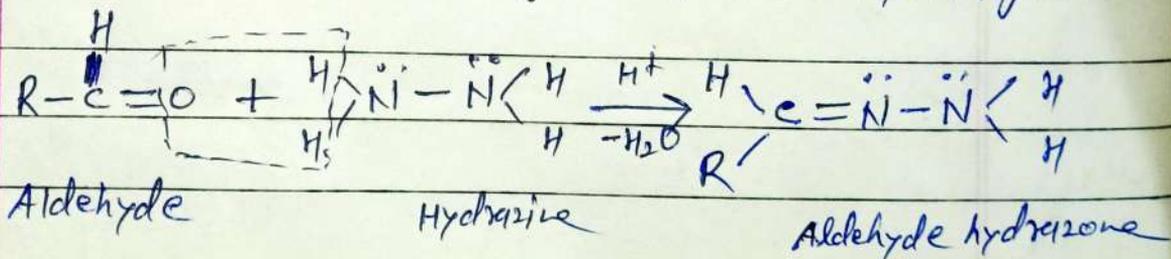
Nucleophilic addition reaction by elimination of water molecule!

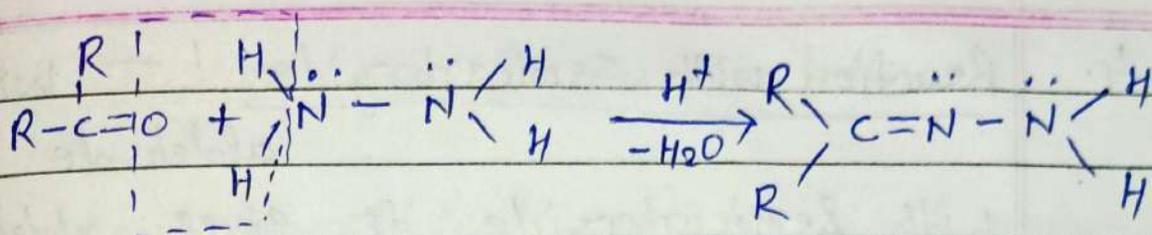
1. Reaction with hydroxyl amine!

When aldehyde reacts with hydroxylamine in presence of acid to give aldoxime while Ketone on similar treatment gives ketoxime.



2. Reaction with Hydrazine! - Aldehyde reacts with hydrazine to give aldehyde hydrazone while Ketone on similar treatment gives Ketone hydrazone.

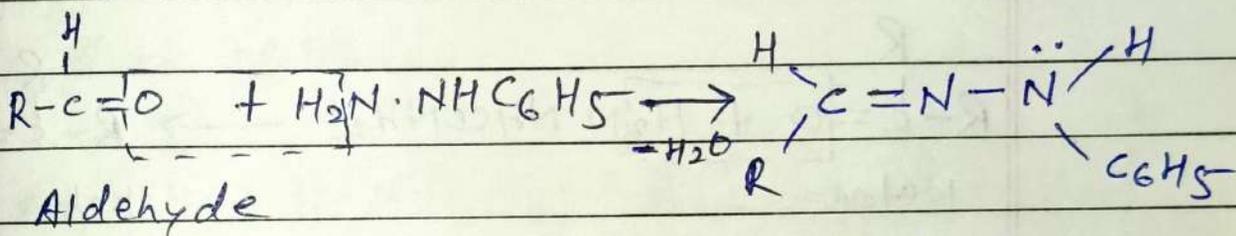




Ketone

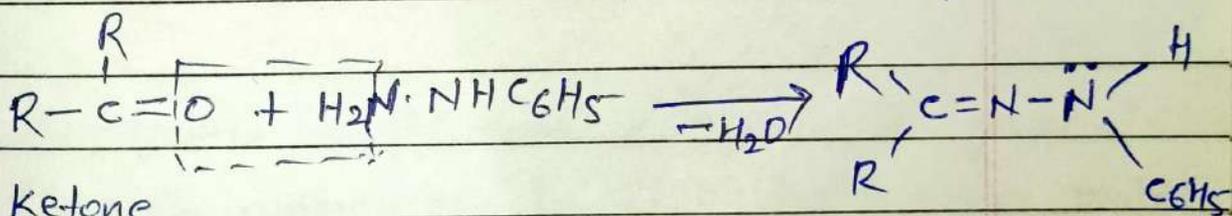
Acetone hydrazone

3. Reaction with Phenyl hydrazine! — when aldehyde and ketones react with phenyl hydrazine to give aldehyde phenyl hydrazone and ketone phenyl hydrazone respectively.



Aldehyde

Aldehyde Phenyl-hydrazone



Ketone

Ketone phenyl-hydrazone