

Rashmi Sinha

Deptt. of chemistry

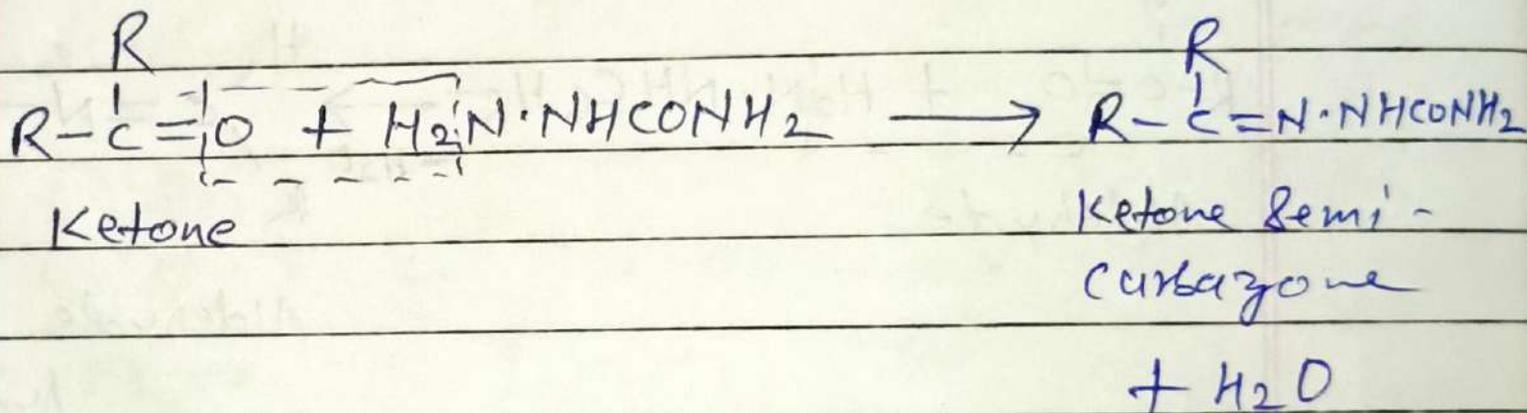
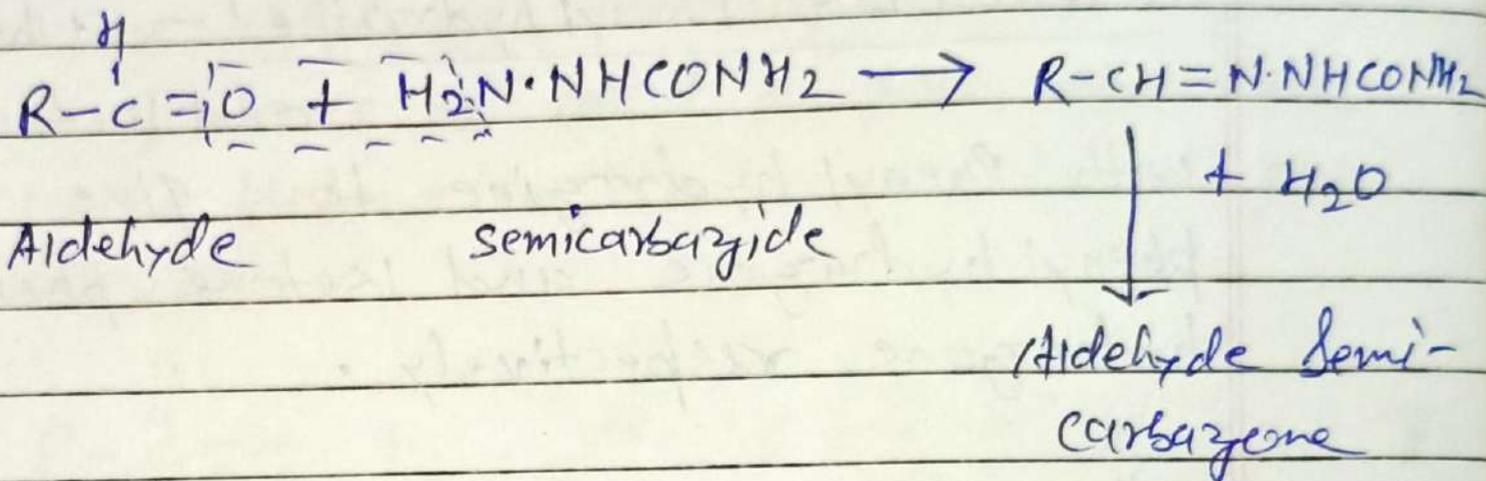
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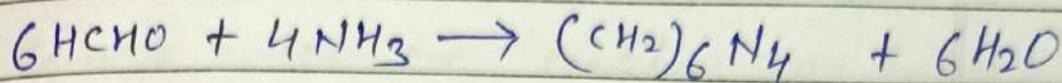
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4. Reaction with semicarbazide ! — When aldehyde reacts with semicarbazide it gives aldehyde semicarbazone ~~while~~ while ketone on similar treatment gives ketone semicarbazone.



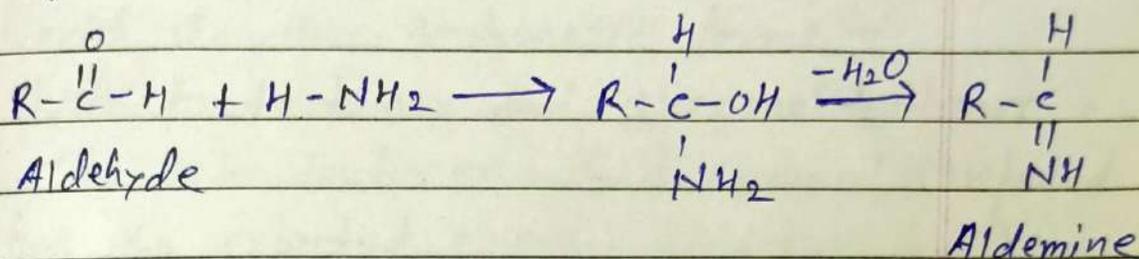
## Reaction with Ammonia 1 —

- a. When formaldehyde reacts with ammonia to give hexamethylene ~~tetramine~~ tetraamine or urotropine.



Hexamethylene  
tetraamine

- b. When aldehyde reacts with ammonia to give aldehyde ammonia which finally gives aldemine.



- c. When ketone reacts with ammonia it gives diketone ammonia. In this rxn<sup>n</sup> two moles of ketone will be used.

