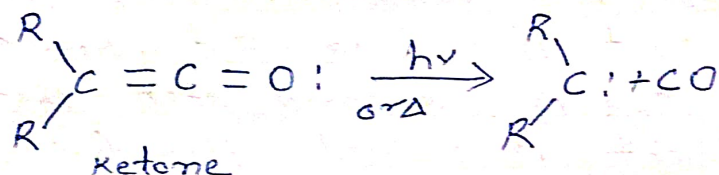
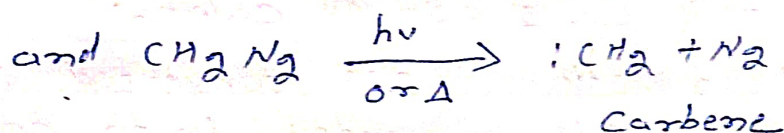
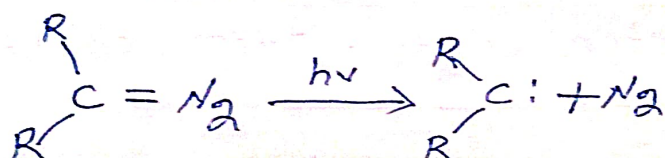


Generation of carbenes

The precursors with the loss of last stable unit (molecule) prepare carbenes.

1) From Aliphatic Diazo Compounds or Ketones :-

~~These~~ These compounds form carbenes after undergoing photolytic or thermal decomposition.

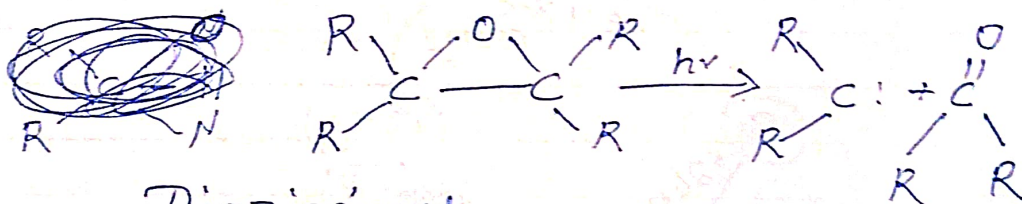


Acyldiazo compound

Acyl carbene

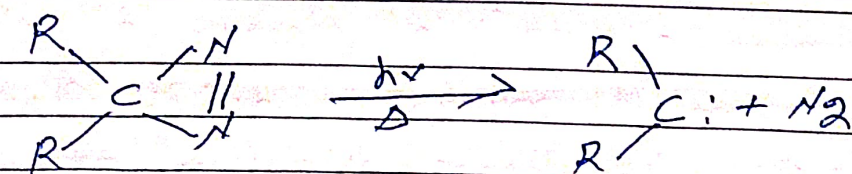
2) From Epoxides :-

These compounds form carbenes after undergoing photolysis.



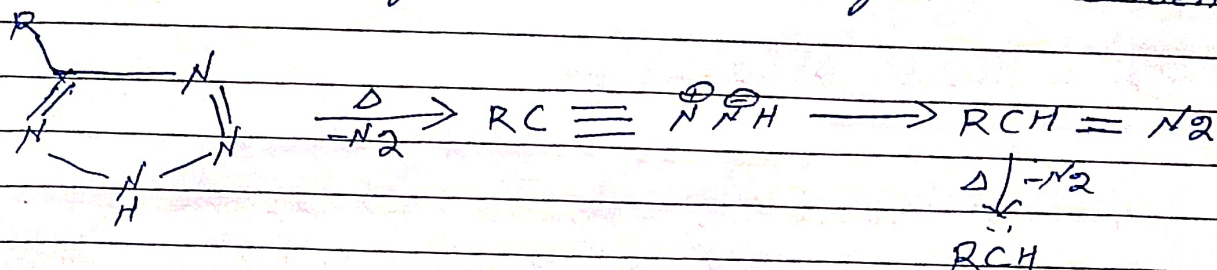
3) From ~~Tetrazines~~ ^{Diazirines}

These compounds first decompose and then they form carbenes.

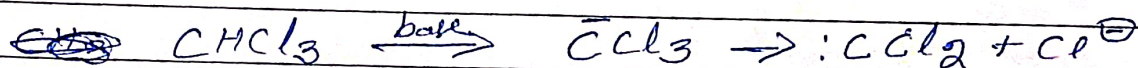


Diazirines

4) From Tetrazoles $\rightarrow$ These compounds first decompose thermally and then they form carbenes.



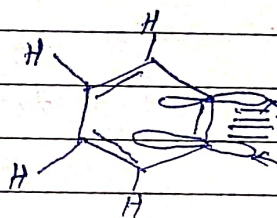
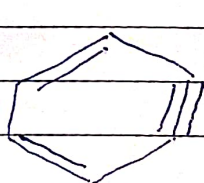
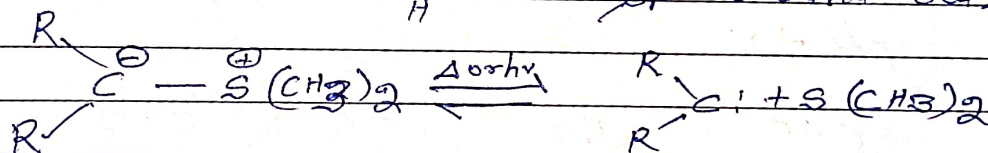
5) From Alkyl Halides $\rightarrow$ These compounds after decomposition form only chlorocarbene.



~~Dichlorocarbene~~
Dichlorocarbene

6) From Ylides $\rightarrow$

These compounds form carbenes after thermal or photolytical decomposition.

Abnormal π bondsp² orbital outside the ring

Ylide

Teacher's Signature _____