



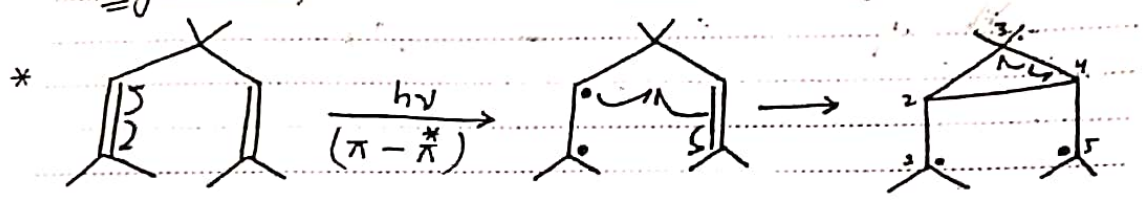
③ Rearrangements :-  
These includes :-

# Rearrangement of 1,4-Pentadiene ()

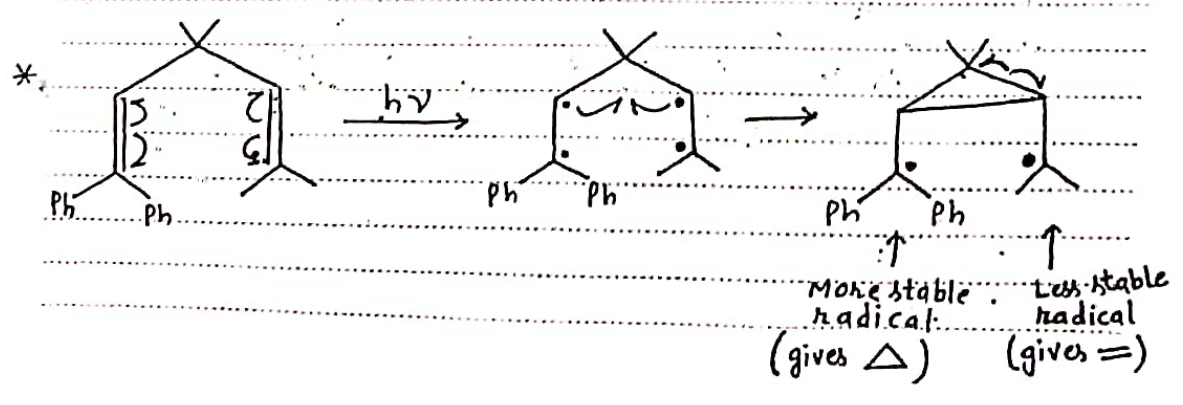
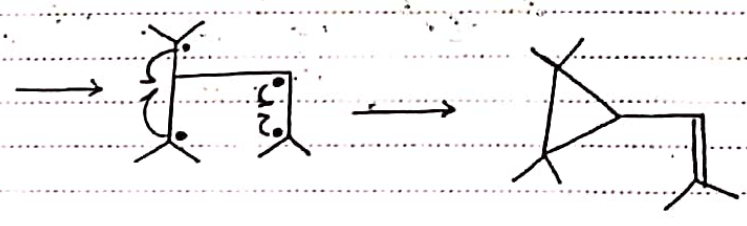
Di-π-methane rearrangement :-

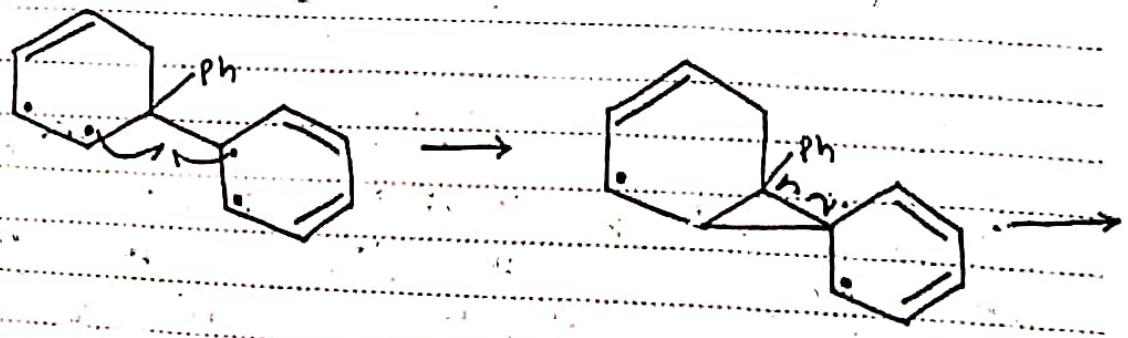
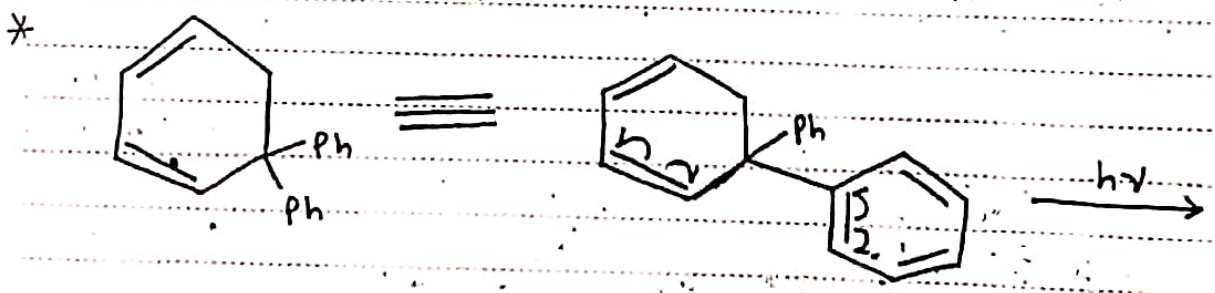
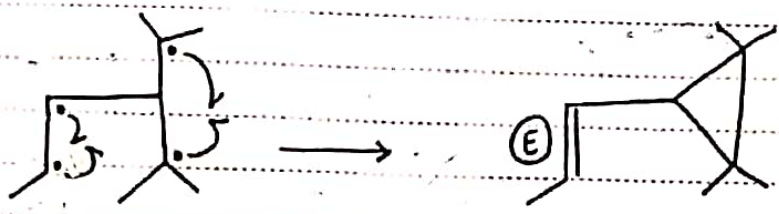
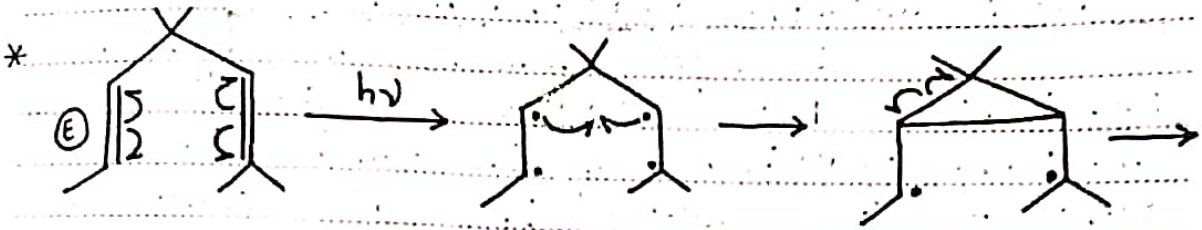
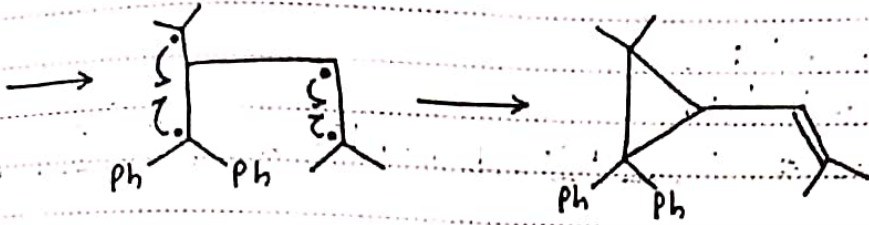
The most common photochemical reactions of 1,4-pentadiene is the di-π-methane rearrangement in which the substrate is converted into a vinyl cyclopropane ()

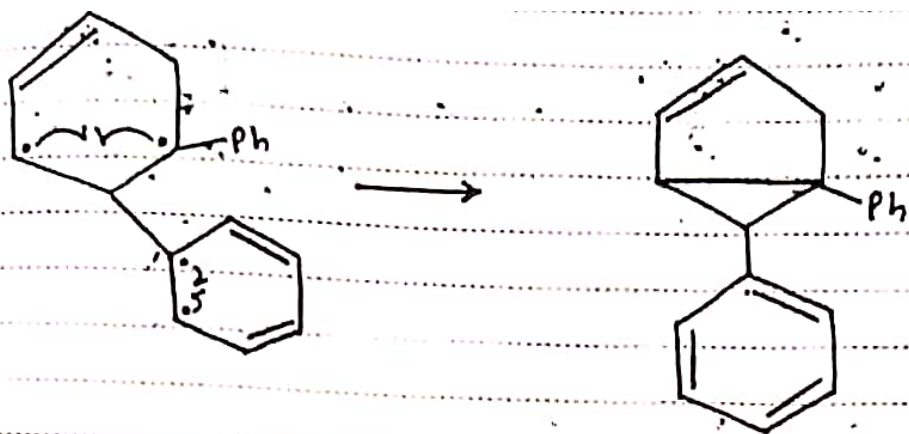
E.g.



1,5-Diradical intermediate.



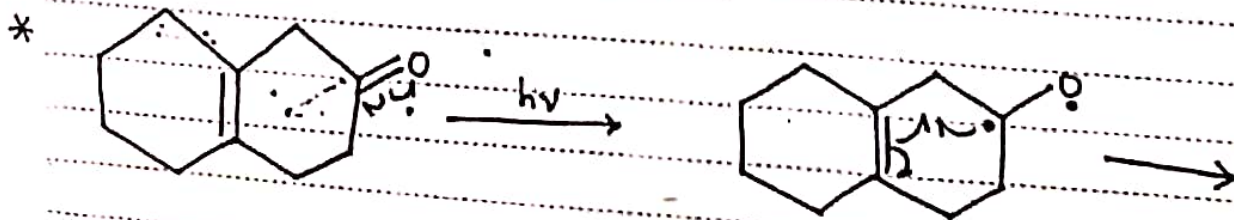
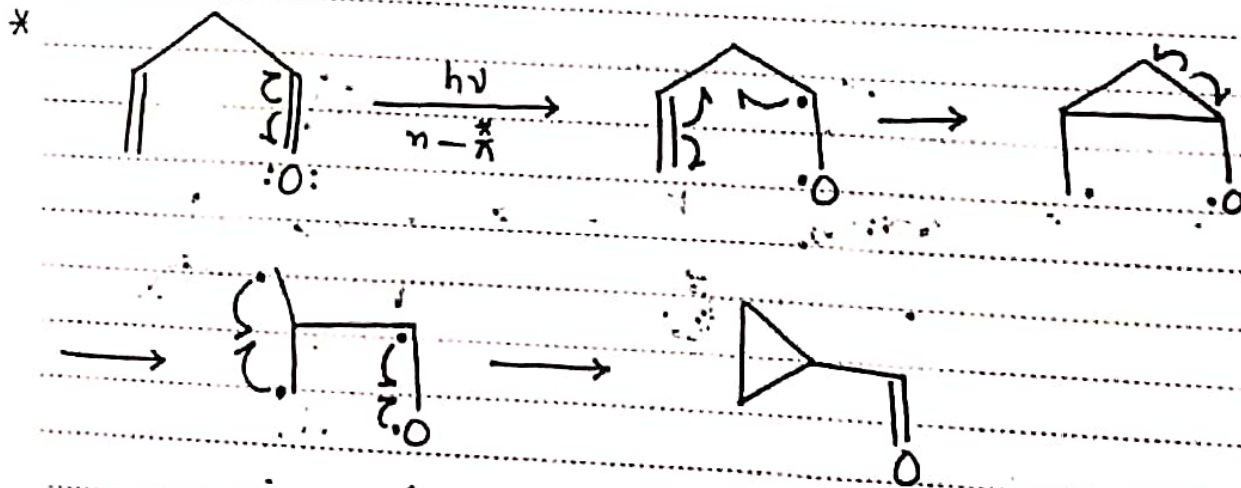


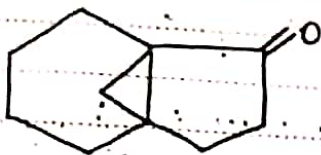
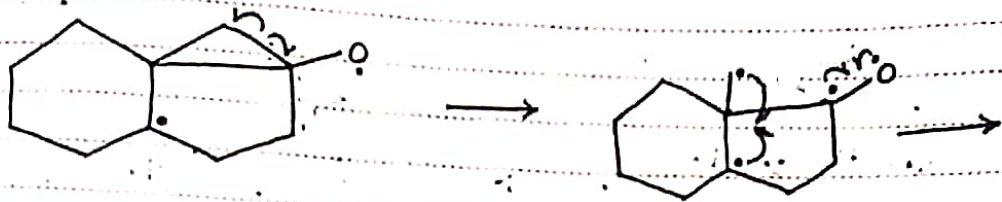


# Oxo-Di- $\pi$  methane rearrangement :-

This rearrangement occurs in such type of compounds in which the carbonyl carbon and double bond are separated by one saturated carbon. In final step, the carbonyl group regenerates.

E.g.





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