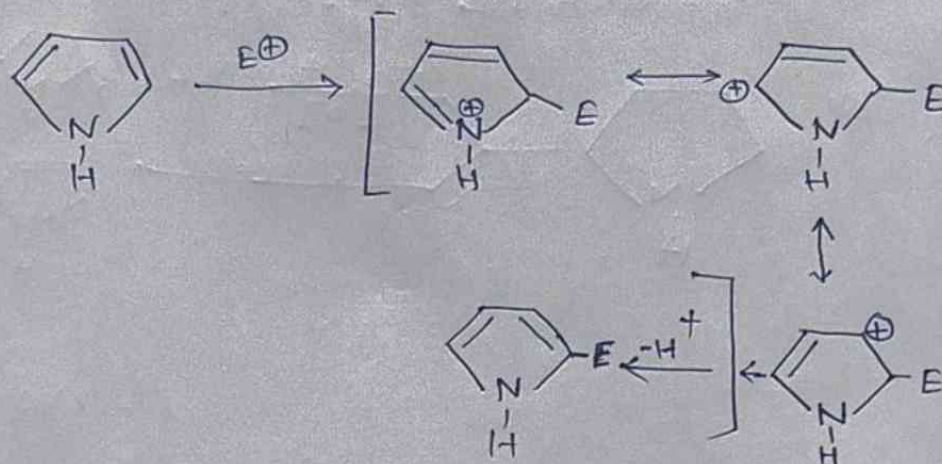


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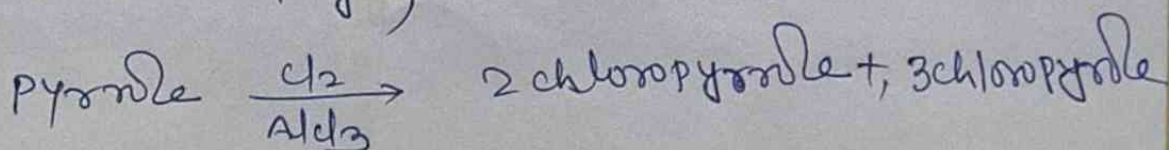
Sub: - Chemistry Sem V MJC-9 BY DR. M.KR

Reaction and reactivity of pyrrde

- (1) Pyrrdes generally react with electrophiles at the α -position (C_2 or C_5), due to the highest degree of stability of the protonated intermediate.



- (2) Halogen generally provides polyhalogenated pyrrde, but monohalogenation can be performed AS a typical for electrophilic additions to pyrrdes. halogenation generally occurs at the 2-position but can also occurs at the 3 position by ~~sitation~~ sitation or the nitrogen.

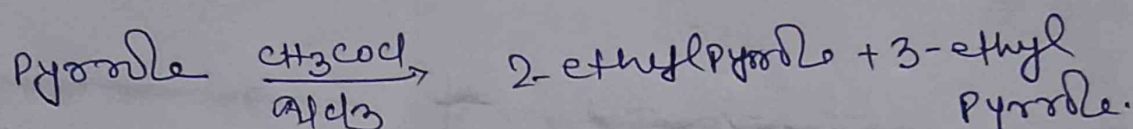


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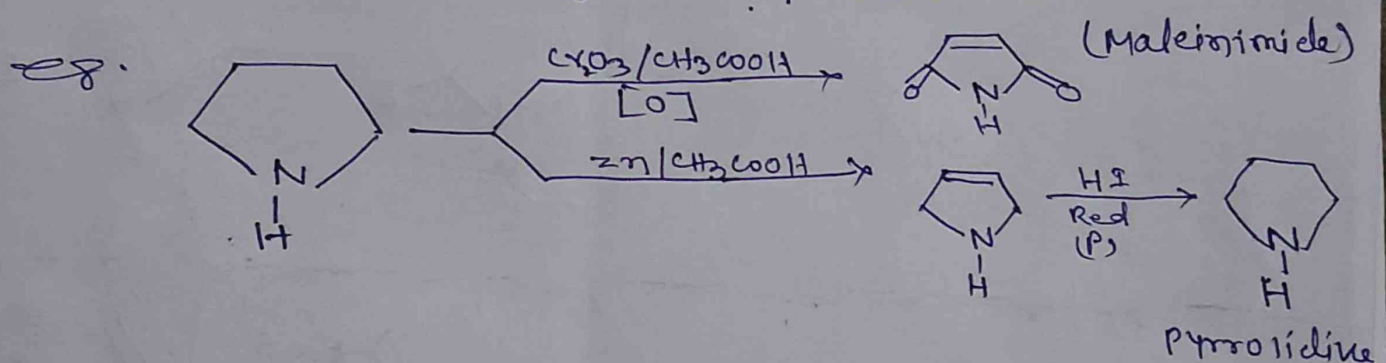
P-②

(3) ~~Friedel~~
Friedel craft acylation : - Pyrrole is reacted with acyl group in the presence of $AlCl_3$ and gives two product one is major and another is minor product.



(4) Oxidation and Reduction:-

Pyrrole is oxidized to maleimide and on reduction gives pyrrolidine.



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