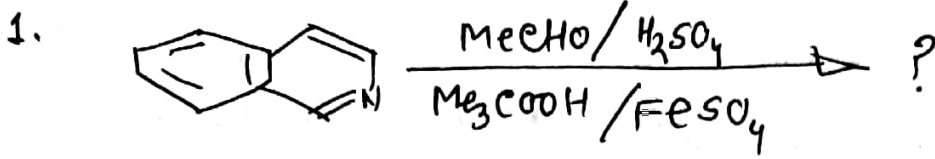


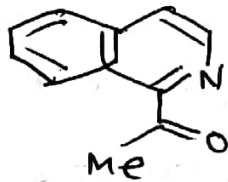
Solved Problems.

Minisci Rexn

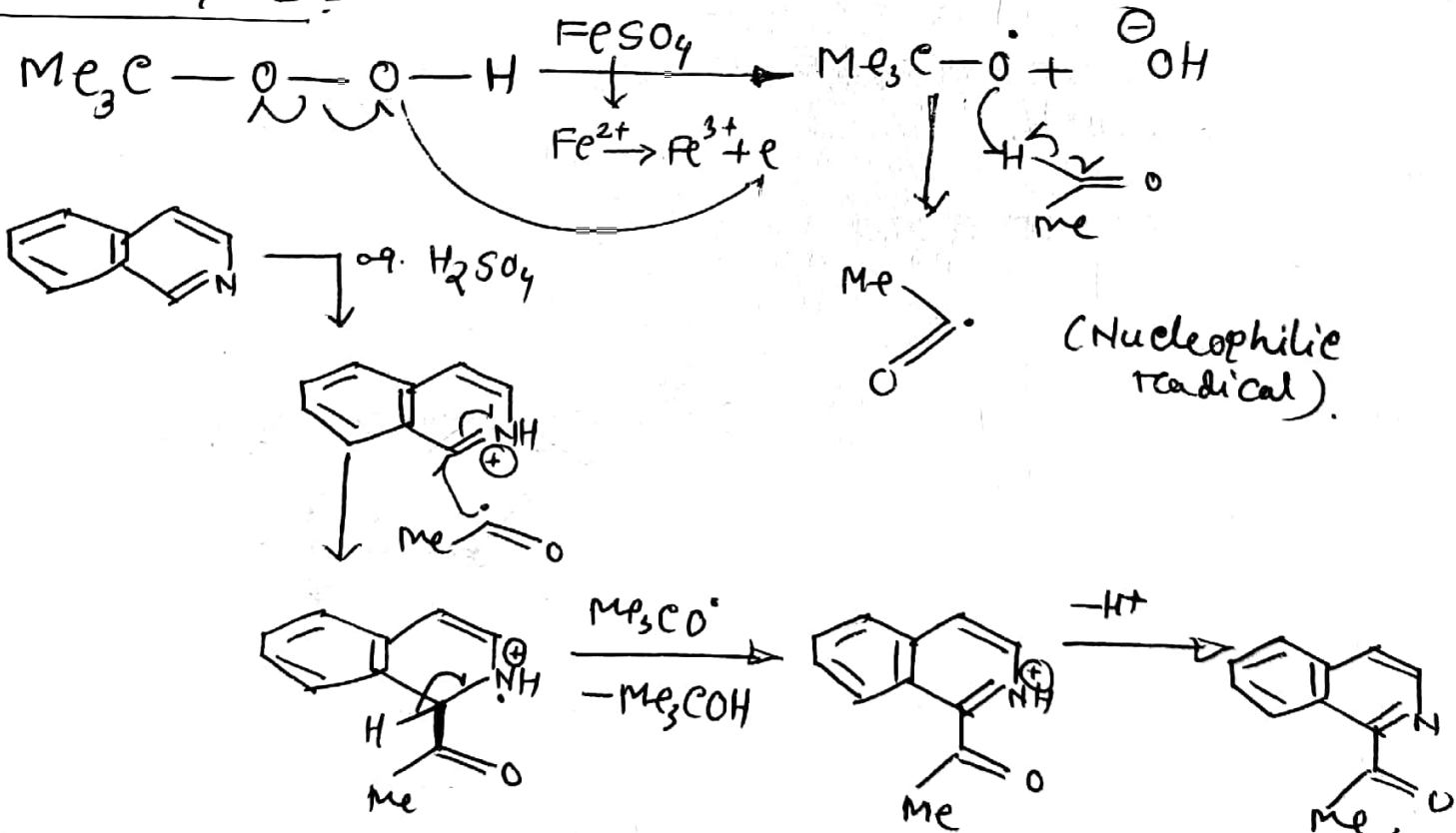


This is an example of nucleophilic radical substitution rxn of heteroaromatic compound containing C=N unit. (eg. Py, quinoline, isoquinoline, diazine, imidazole) selectively α to the position of C=N.

Prod is



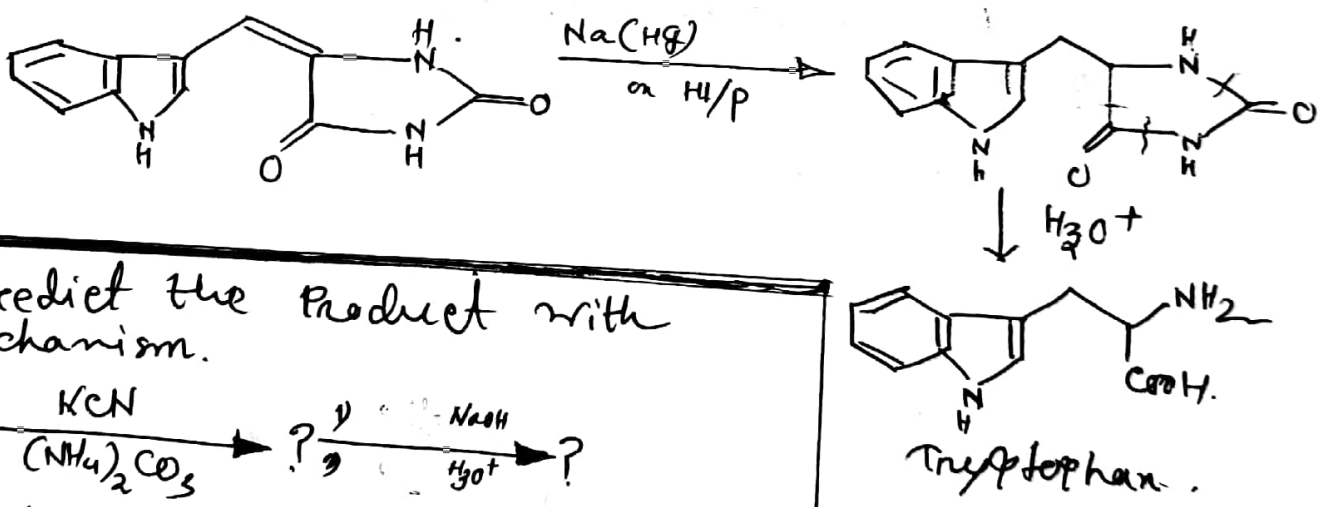
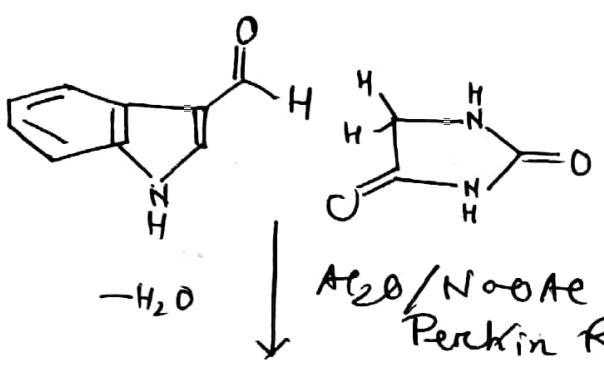
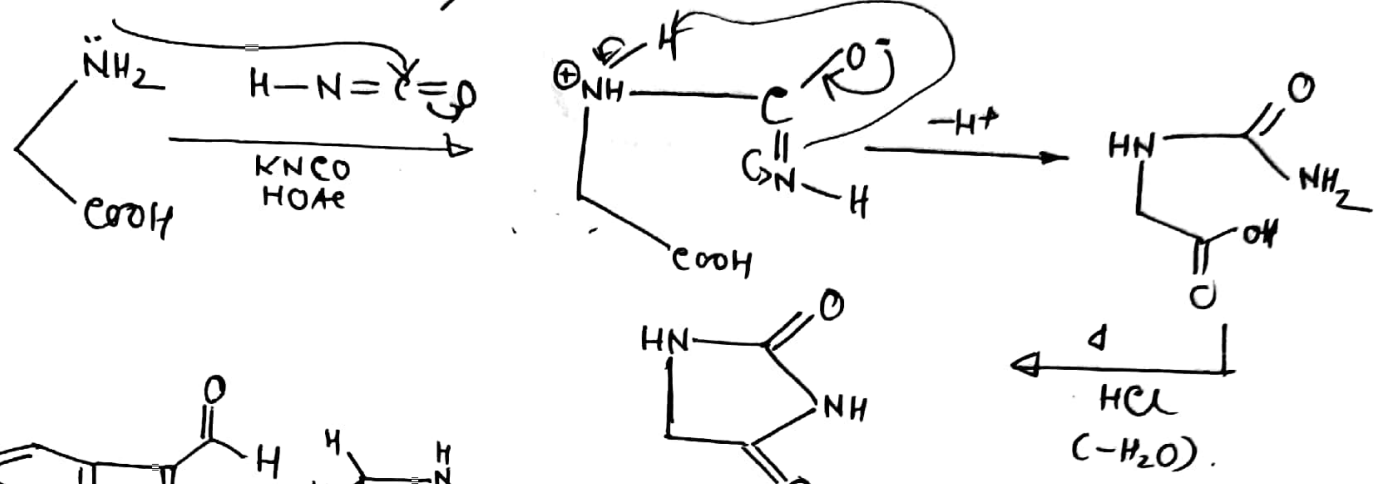
Mechanism:



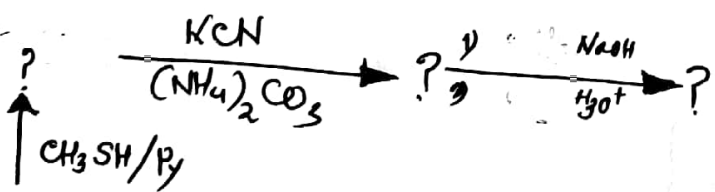
2. Convert Glycine \longrightarrow Tryptophan.

The conversion can be achieved by West hydantoin synthesis.

* At first Hydantoin is synthesized from Glycine by rxn with HNC=O in presence of potassium isocyanate and acetic acid.



3. Predict the product with mechanism.



Acetaldehyde

Ans.

