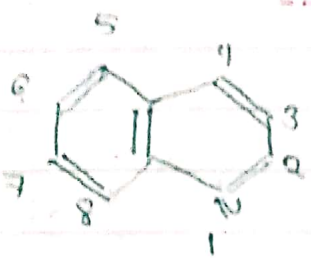


QUINOLINE
C₉H₇N

OR α, β -Benzopyridine
OR 1-Azonaphthalene

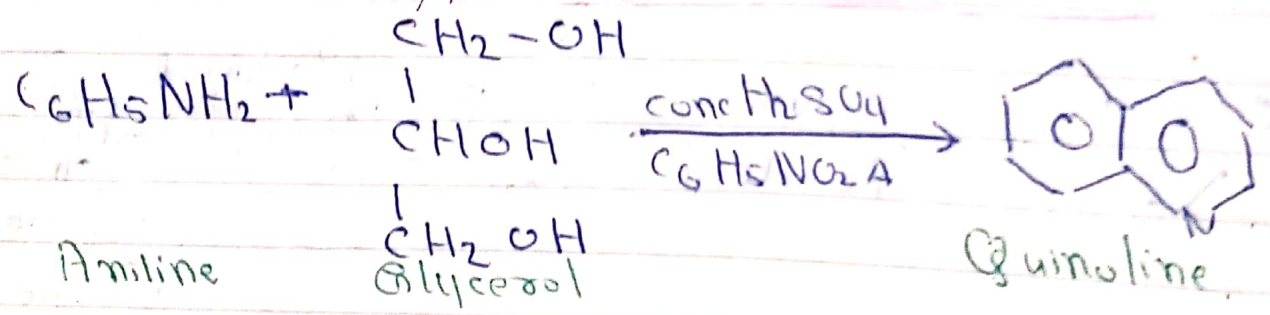


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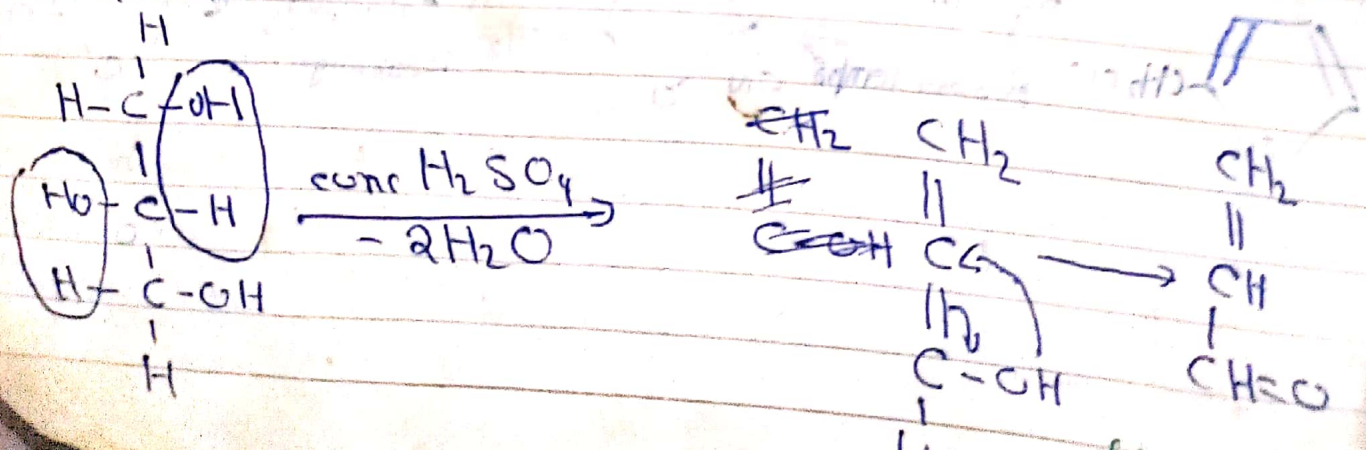
SYNTHESIS Quinoline occurs in coal tar, bone oil and in a plant *Angosura* bark. Quinoline may be obtained by the following methods:-

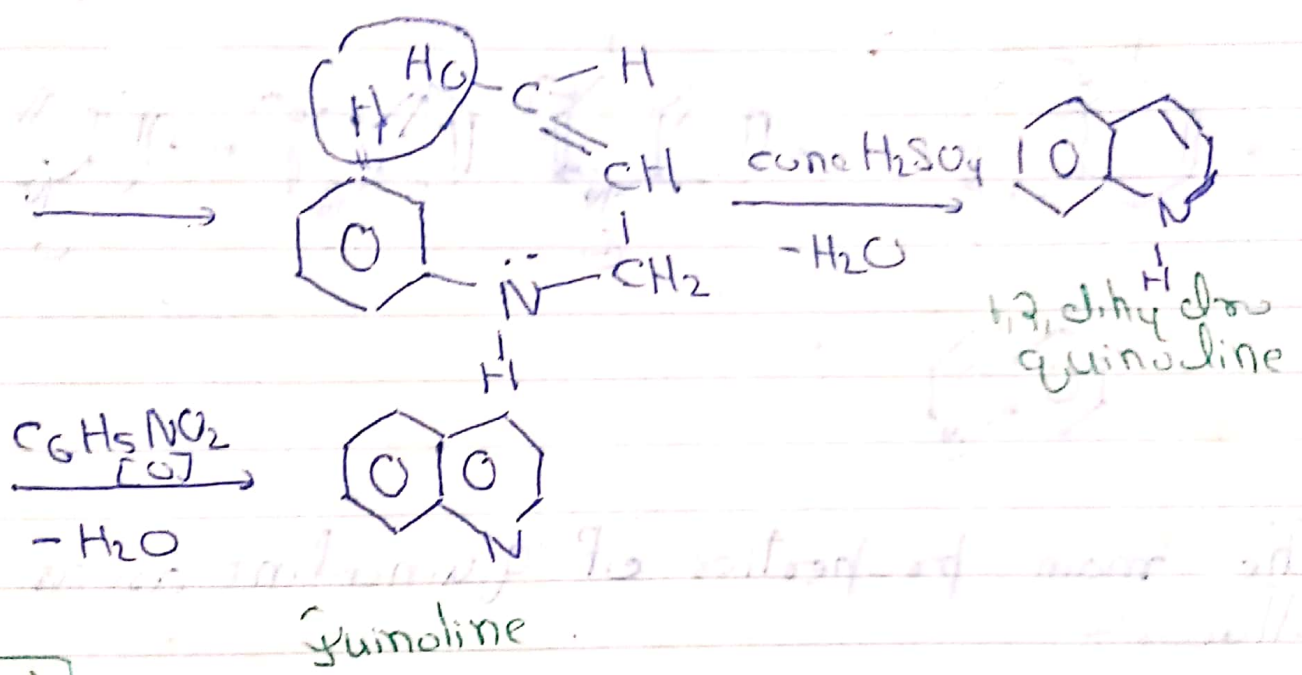
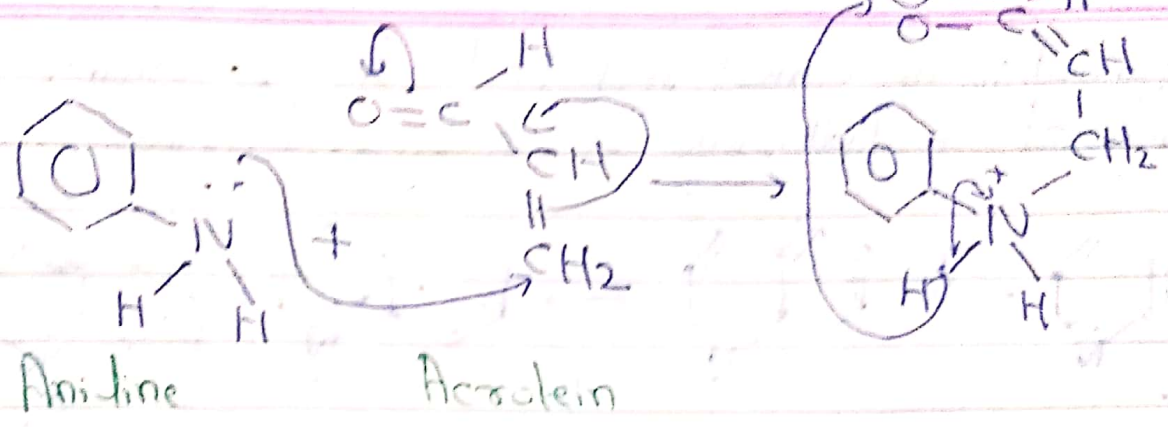
(i) By Skraup's synthesis:-

In this reaction, a mixture of aniline and ^{glycerol} ~~glucose~~ is heated in the presence of ^{sulphuric} ~~sulphuric~~ acid and a mild oxidizing agent usually nitrobenzene. The reaction is exothermic and tends to become very violent. Ferrrous sulphate is generally added to make the reaction less violent.



The mechanism of this reaction is as follows:-





Imp

(2) Friedel Landers synthesis

This synthesis involves the condensation of α -amino benzaldehyde with CH_3CHO in presence of alkali.

