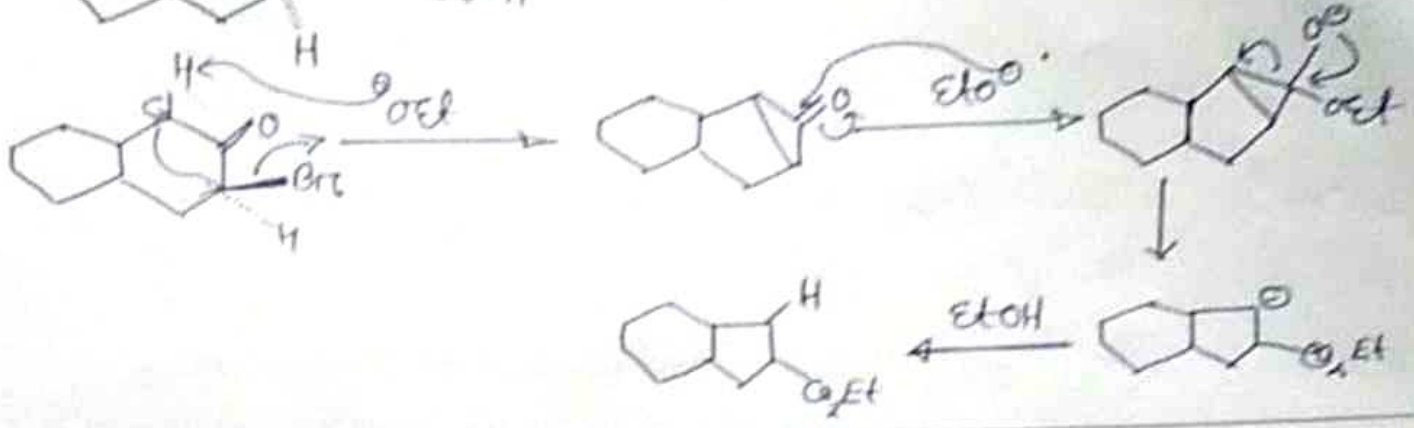
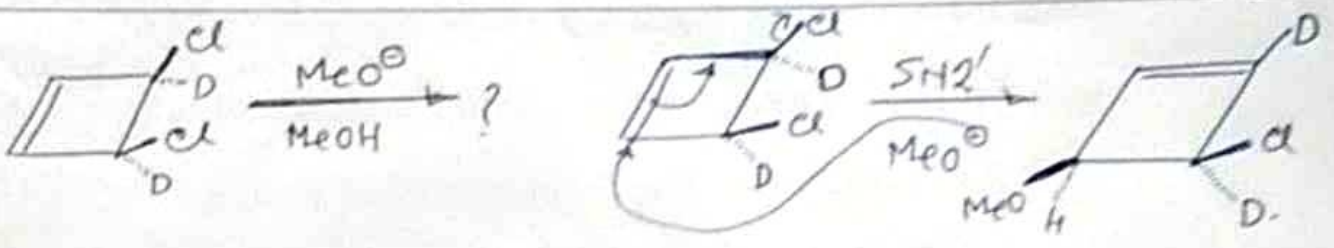


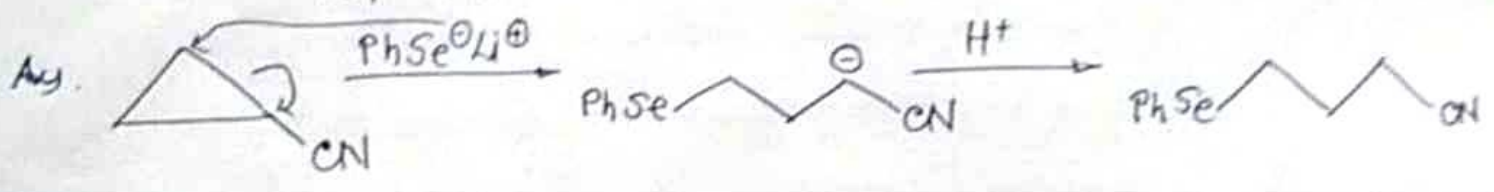
⑥ C1CCC2CCCC2C1=O $\xrightarrow[\text{EtOH}]{\text{NaOEt}}$? (Favorskii Rearr.)



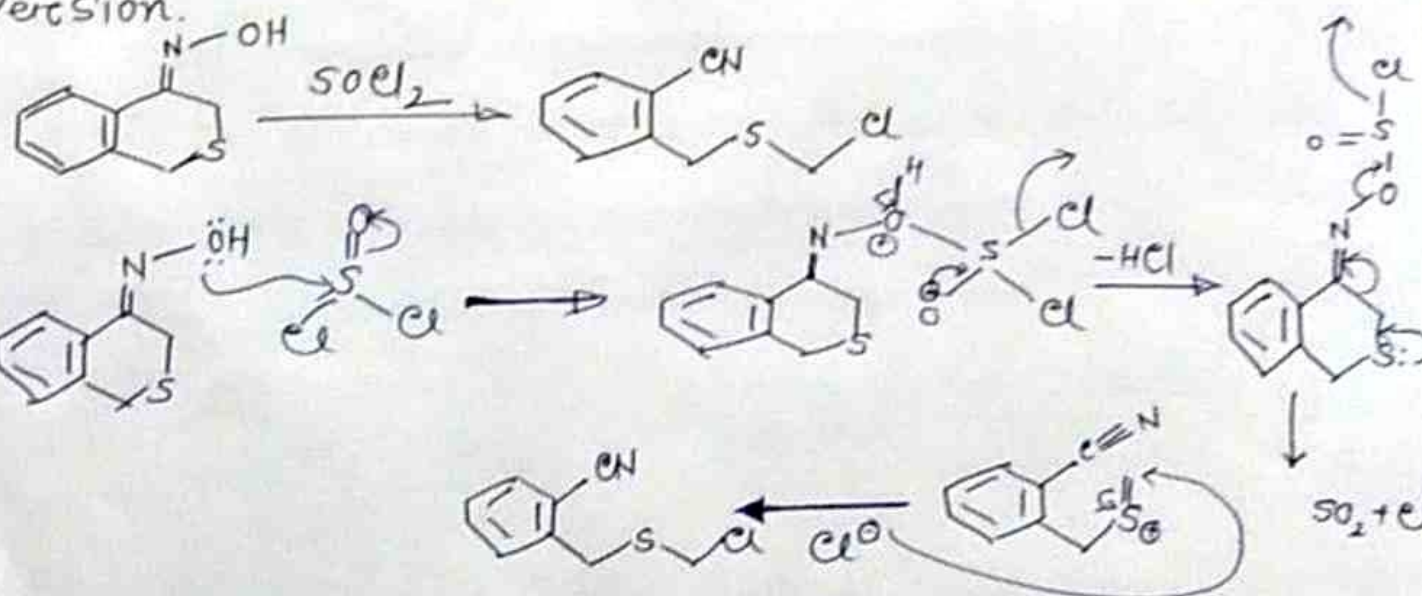
⑦ C1=CC=C(Cl)C(Cl)=C1 $\xrightarrow[\text{MeOH}]{\text{MeO}^\ominus}$? $\xrightarrow[\text{MeO}^\ominus]{\text{SH}_2'}$?



⑧ C1CC1C#N $\xrightarrow[2. \text{H}^+]{1. \text{PhSe}^\ominus \text{Li}^+}$? (Nucleophilic cleavage)



⑨ Suggest a mechanism for the following conversion.



⑩ Show how Na^+ ion gets solvated by DMSO solvent.

