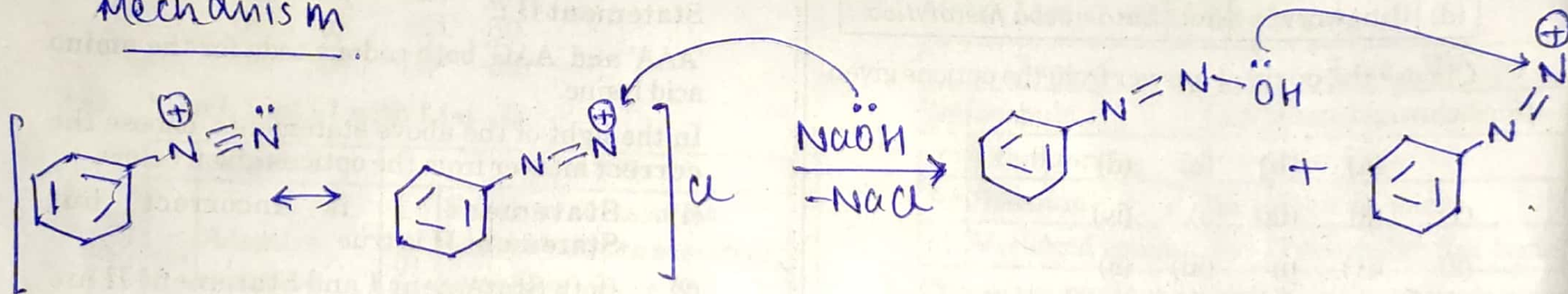
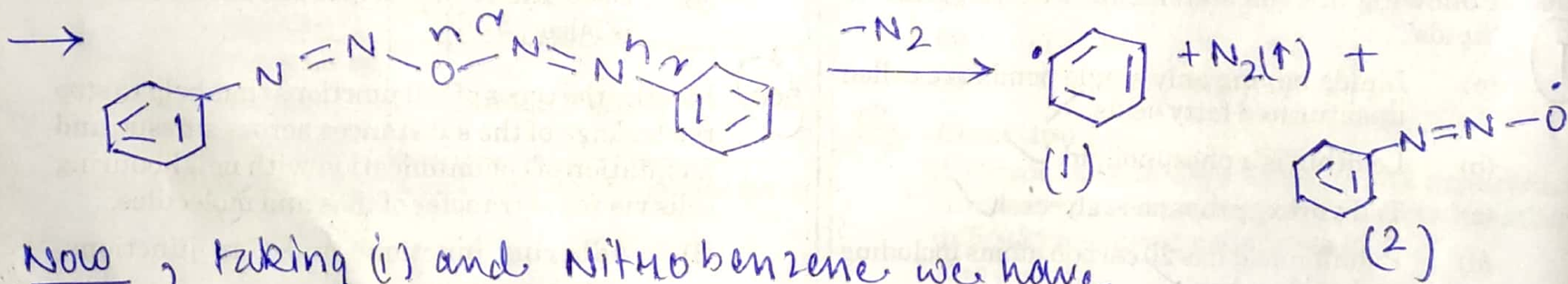


a) This is an example of Gomberg reaction which is an aryl-aryl coupling reaction via diazonium salt.

Mechanism



Diazonium salt



Now, taking (i) and Nitrobenzene we have

