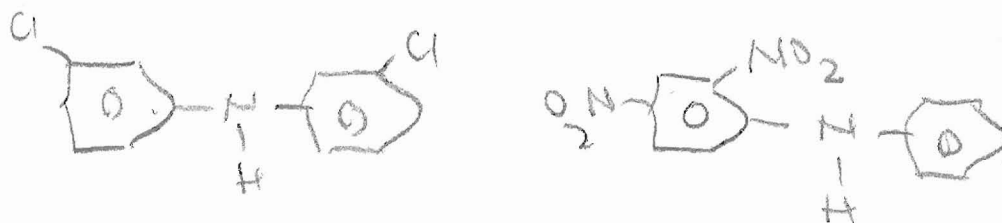


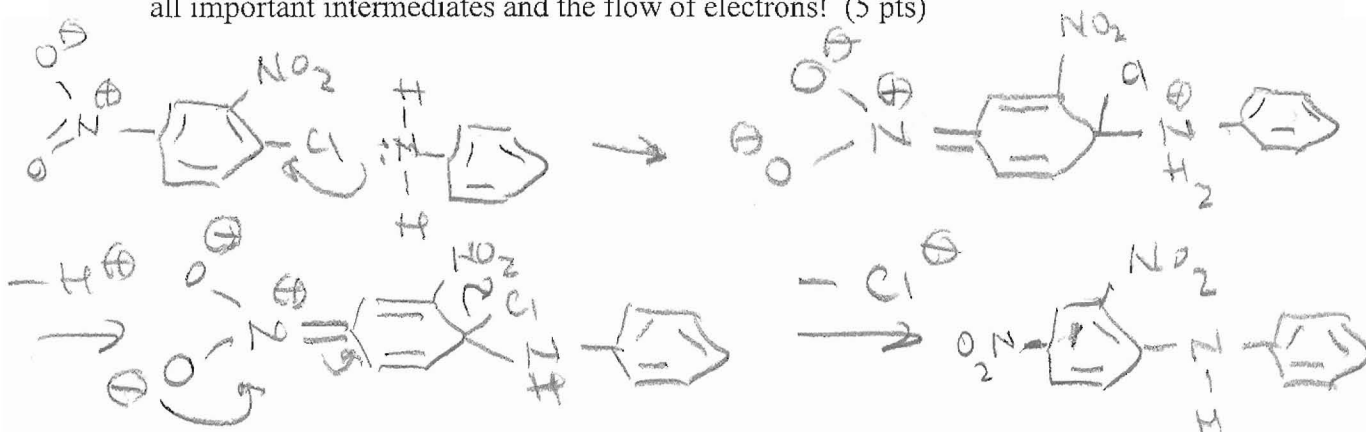
1. Shown valid structural formulas for a) 3,3'-dichlorodiphenylamine, b) 3,4-dinitrodiphenylamine! (2 pts)



2. Show structural formulas of products you will obtain from the reaction of a) 2-chloroaniline with 1-fluoro-4-nitrobenzene, b) 4-nitroaniline with 1,2-dichloro-3-nitrobenzene! (4 pts)



3. Show a valid mechanism for the synthesis you carried out last time. Be specific, show all important intermediates and the flow of electrons! (5 pts)



4. Circle all halobenzenes you expect to react with aniline to produce diphenylamines! (4 pts)

