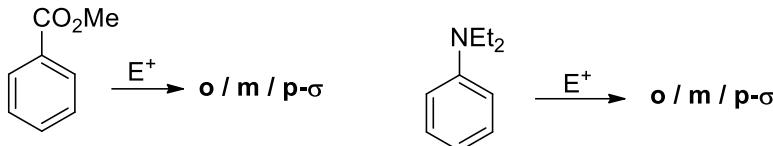


FRO-II 2021, POW, Nº 4

1 A) Draw the **relevant** mesomeric structures (the ones allowing you to judge the reactivity/selectivity) of the *ortho*-, *meta*-, and *para*- sigma-complexes of methyl benzoate and diethylaniline with a generic electrophile E⁺.

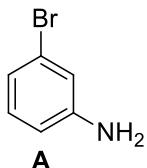


B) Which regioisomers will be formed preferentially and which of the two substrates reacts faster?

2 Propose a **selective** route to **A**, starting from benzene.

Hints: - It should not take you more than 3 individual steps.

-For the order of steps, take care of the regioselectivities and the reactivities!



3 What is the major product of the reaction and which regio-isomer is formed?

