

系別：化學系三年級

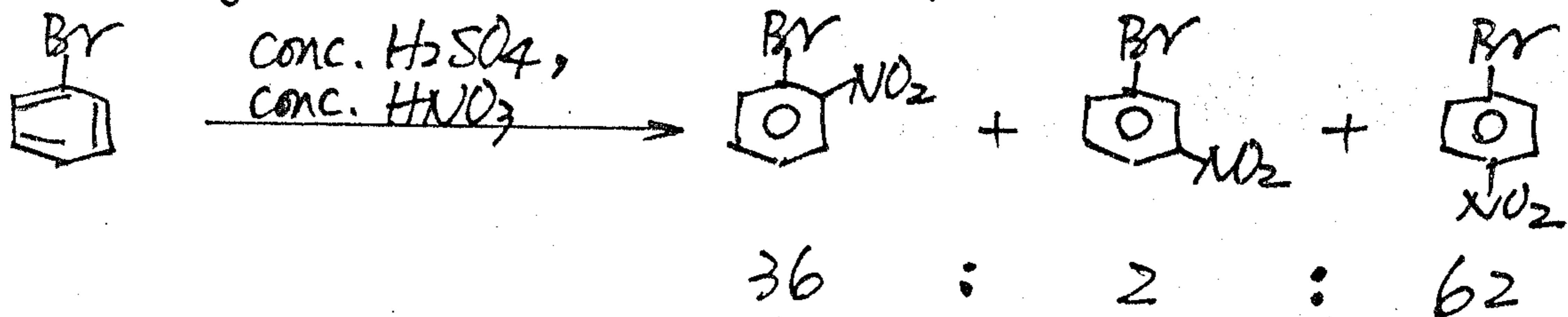
科目：有機化學

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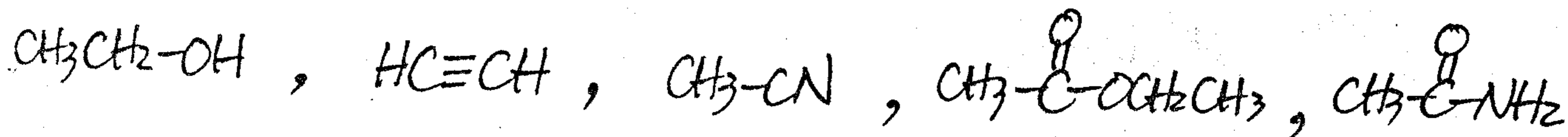
本試題雙面印製

A. Explanation (30 pts)

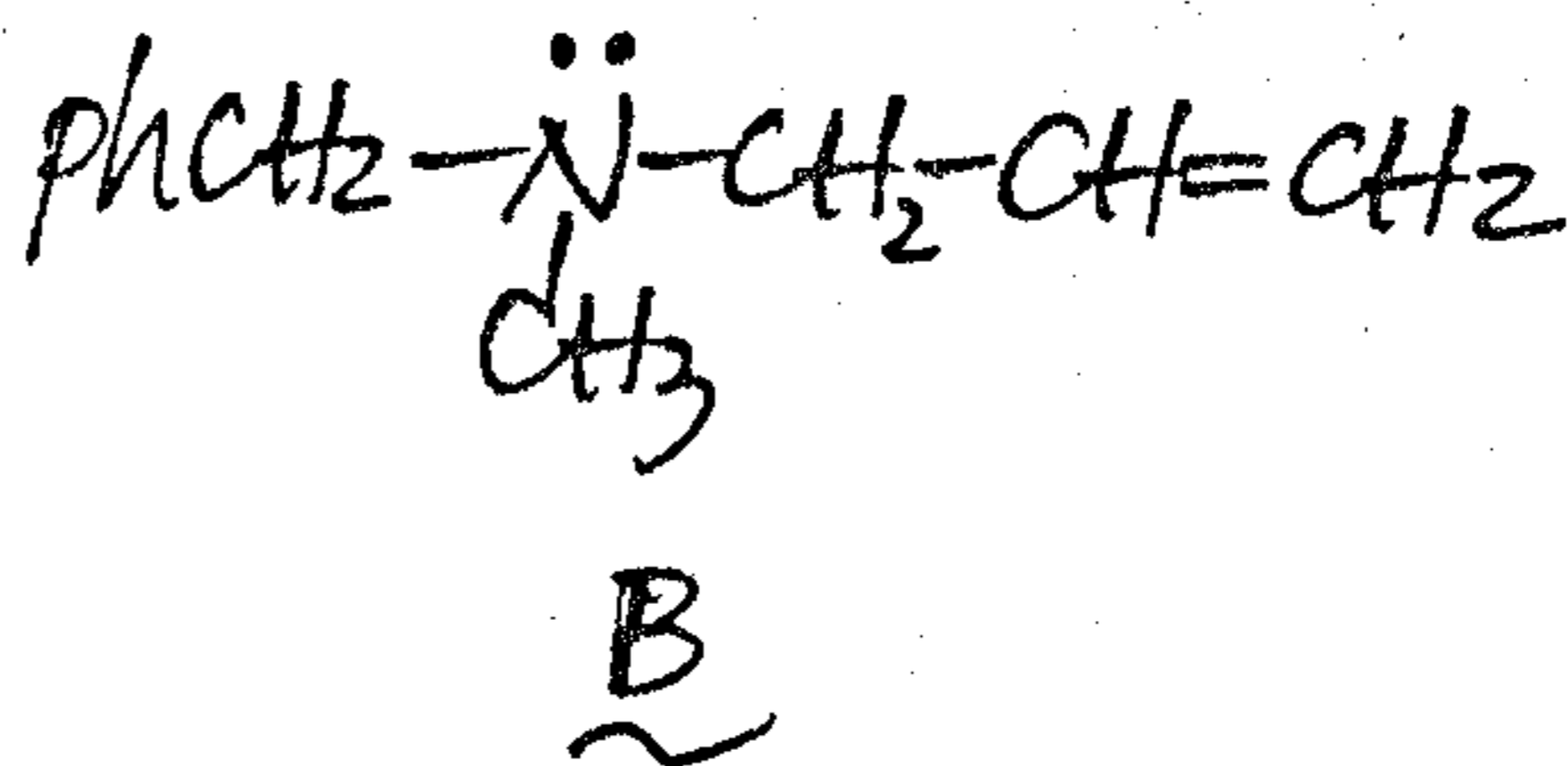
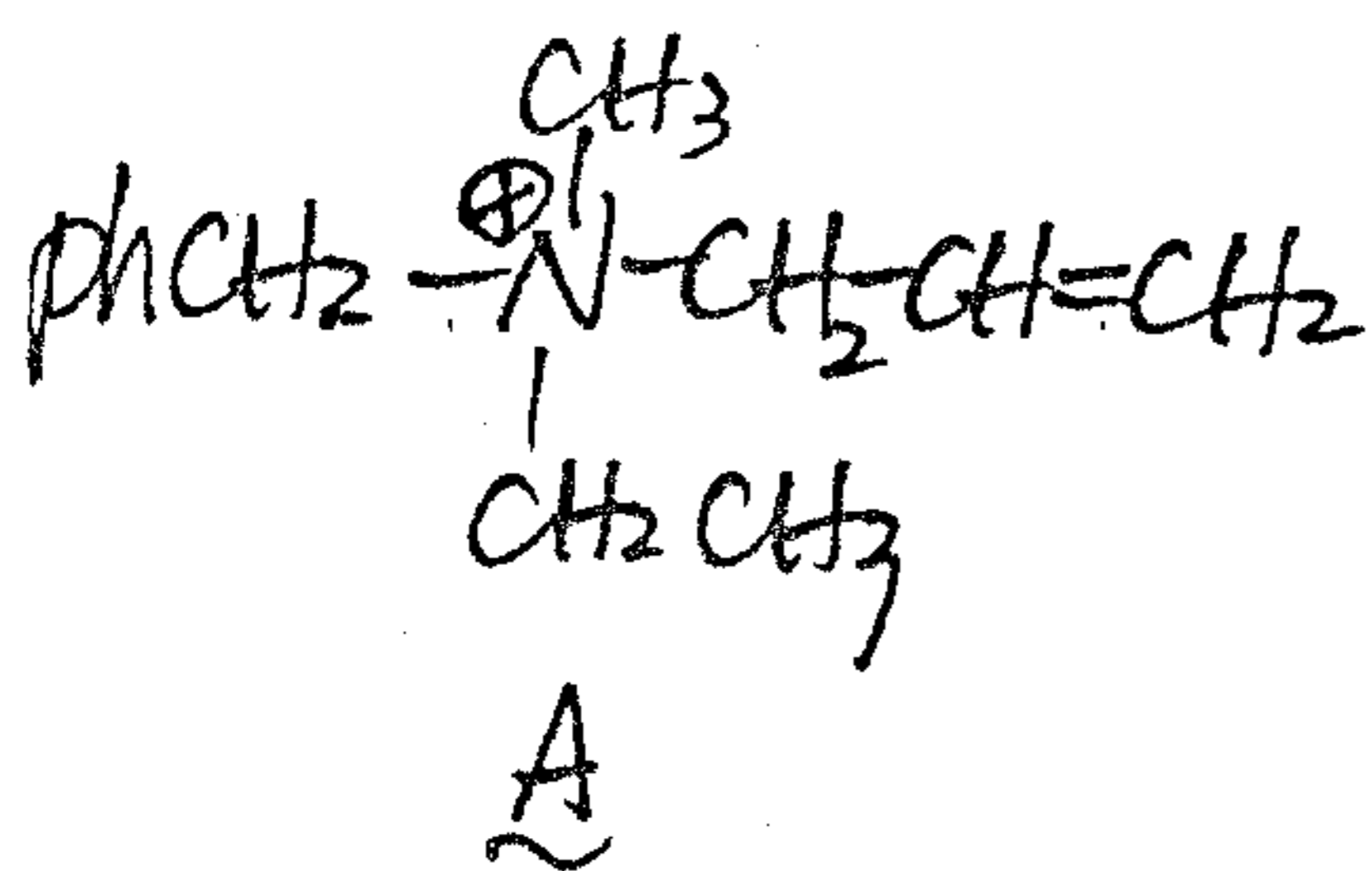
1. Explain the regioselectivity of this Electrophilic Substitution Reaction by resonance forms. (10 pts)



2. Predict the pKa values of the most acidic protons for each molecules. (10 pts)

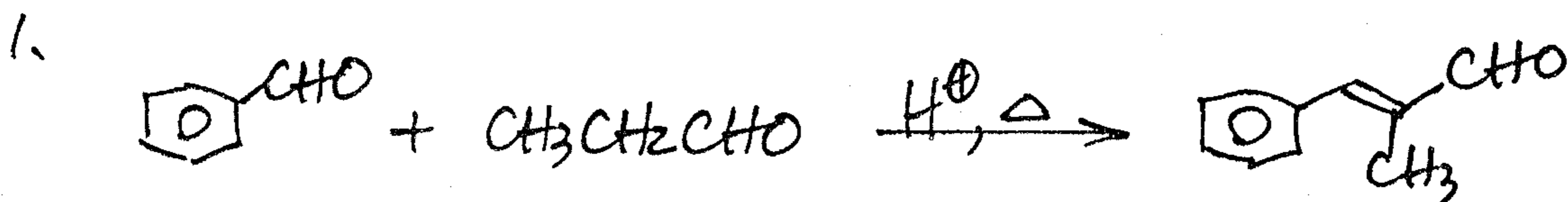


3. Explain why compound A can be resolved into enantiomers, but compound B cannot. (10 pts)



B. Mechanisms (70 pts)

Propose the reasonable mechanisms for the following reactions by arrows. (10 pts each)



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B. Mechanisms

