

# 淡江大學 102 學年度碩士班招生考試試題

19-1

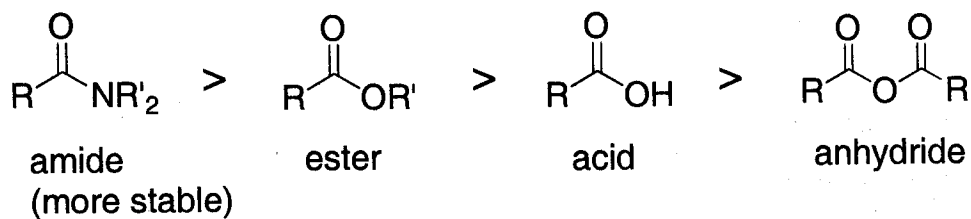
系別：化學學系

科目：有機化學

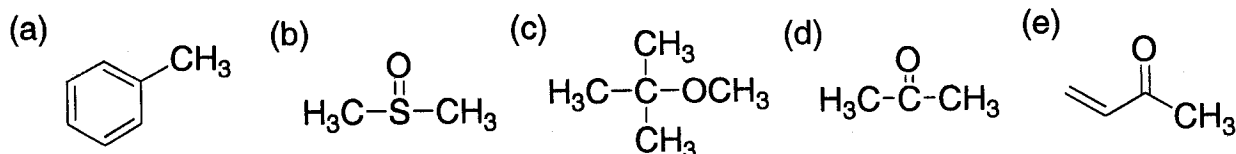
考試日期：3月10日(星期日) 第2節

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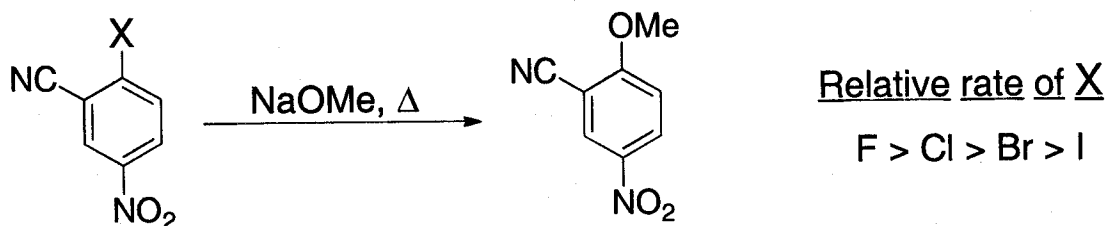
1. Explain the thermodynamic stability of these carboxylic acid derivatives. (10pts)



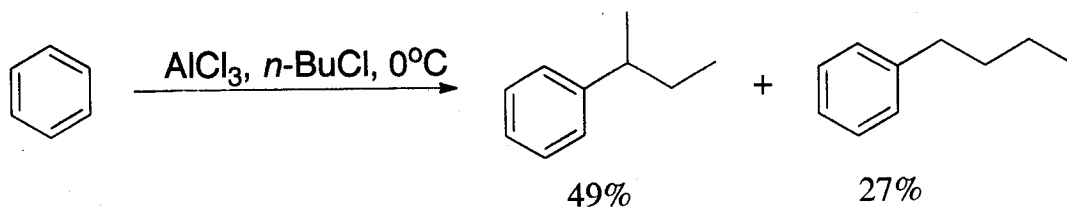
2. Write the English names of these molecules. (10pts)



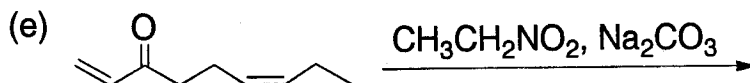
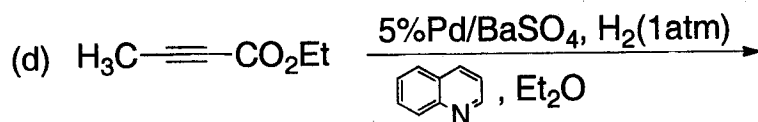
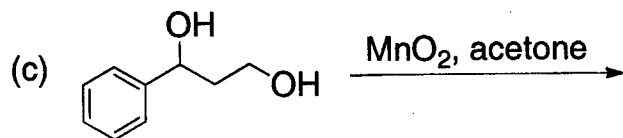
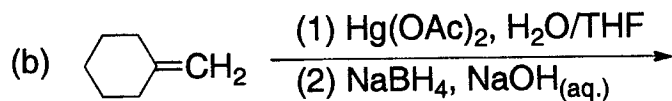
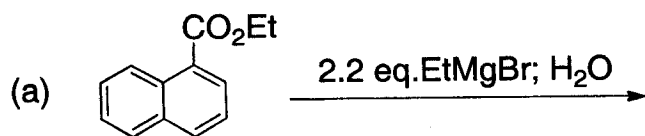
3. Explain the relative reaction rate of aromatic nucleophilic substitution reaction. (10pts)



4. Explain the product ratio of this Friedel-Crafts reaction. (10pts)



5. Draw the major products with stereochemistry of the following reactions. (20pts)



本試題雙面印刷

背面尚有試題

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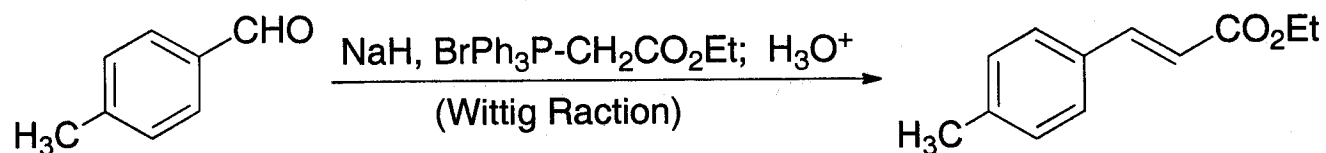
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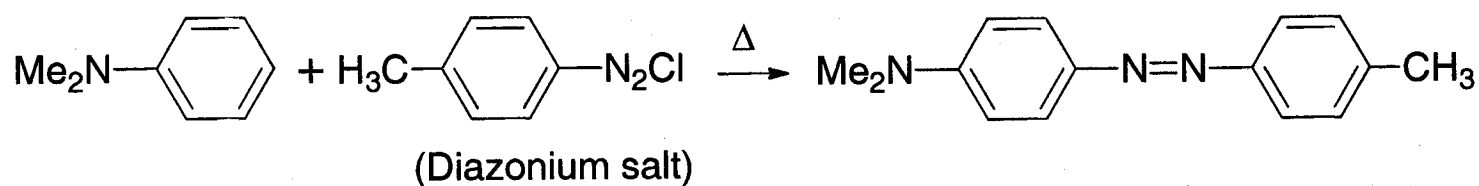
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6. Suggest the reasonable mechanisms with arrows shown for the electron movements of these reactions 6(a) to 6(d). (40pts, 10pts each)

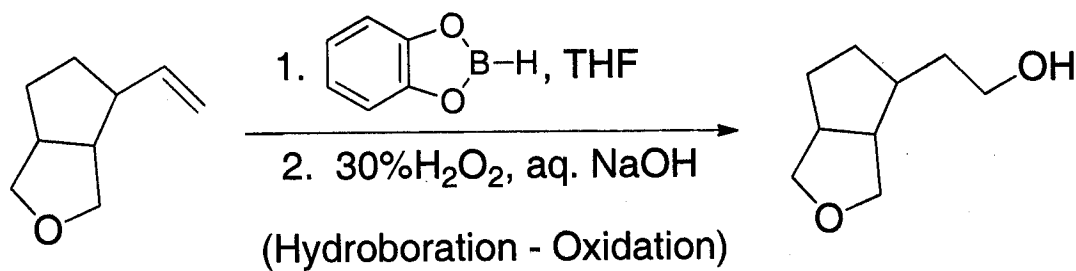
(a)



(b)



(c)



(d)

