

# 大同大學 100 學年度轉學入學考試試題

考試科目:有機化學

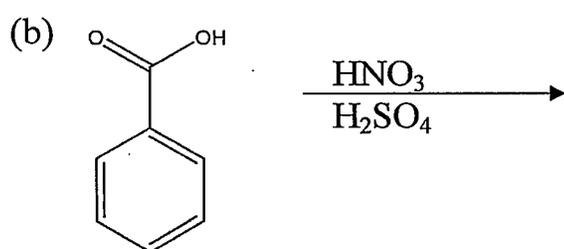
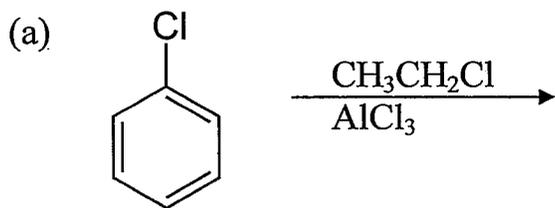
所別:生物工程學系

第 1 頁

註:本次考試 不可以參考自己的書籍及筆記; 不可以使用字典; 不可以使用計算器。

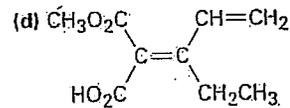
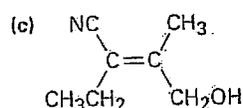
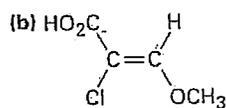
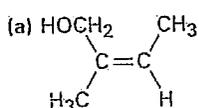
每題20分

1. Predict the major product(s) of the following reactions:

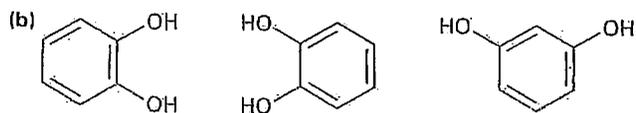
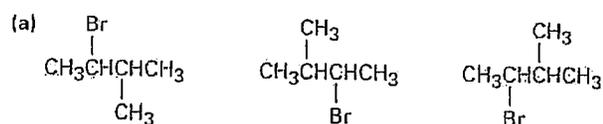


2. Explain what are addition, elimination, substitution, and rearrangement reaction. Write a reaction for each case.

3. Assign E or Z configuration to each of the following alkenes:



4. Give the IUPAC names for the following compounds. In set (a) and set (b), which structures represent the same compound?



5. Please draw all the possible structures for alcohols with formula  $\text{C}_4\text{H}_{10}\text{O}$ . The also name the structures you draw.