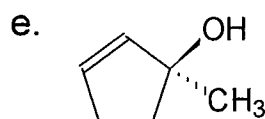
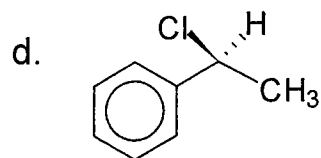
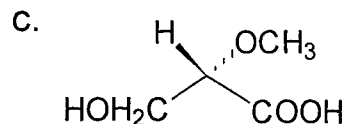
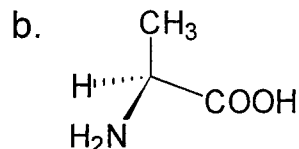
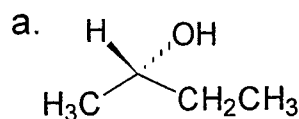
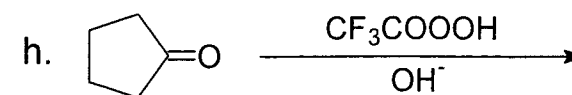
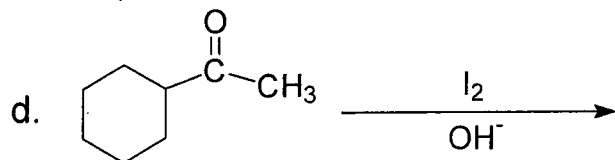
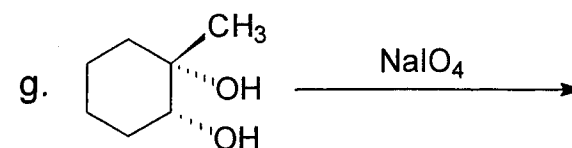
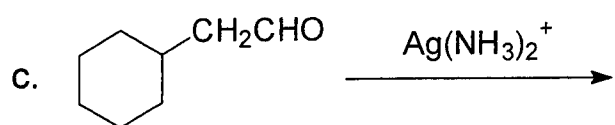
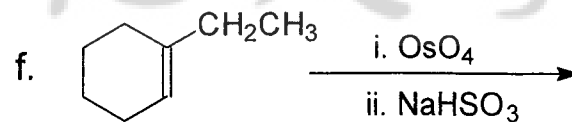
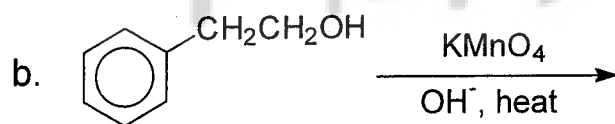
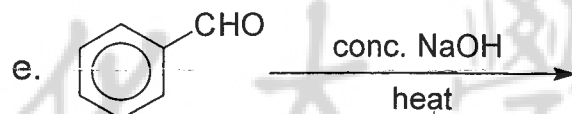
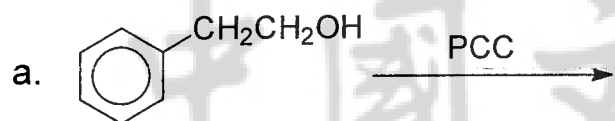


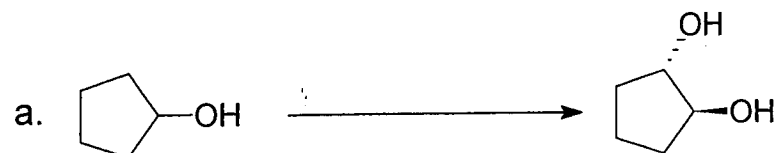
- I. Assign R or S configurations to the chirality center in the following molecules. (2 pts each; 10 pts total)



- II. Reactions. (4 pts each; 32 pts total)



- III. Synthesis. (8 pts each; 8 pts total)



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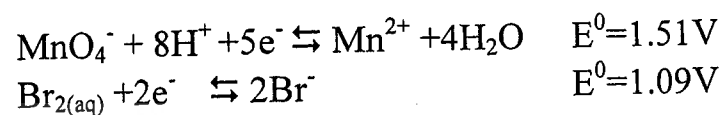
二、分析化學(50%)

1.(30%,每一小題 3%)解釋下列名詞

- | | |
|------------------------|---------------------------|
| a. PH | f. EDTA |
| b. Nernst equation | g. NMR |
| c. Beer's law | h. Van Deemter equation |
| d. Analytical molarity | i. Accuracy |
| e. Buffer | j. Le Châtelier Principle |

2.(5%)請由比重 1.18 的 37%(w/w) HCl(分子量 36.5g/mol)溶液配製 100ml 的 6.0M HCl 溶液。

3.(5%)由下列二半反應電位,計算全反應電位與平衡常數。



4.(5%)於 AA 測試中,使用火焰法,石墨爐法與氫化物產生法,其各別優缺點為何?

5.(5%)電腦的發明,對儀器分析進步發展為何?

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