

(I) Define the following terms:

(a) *Organic Chemistry* (5%)

(c) *Markovnikov's rule* (5%)

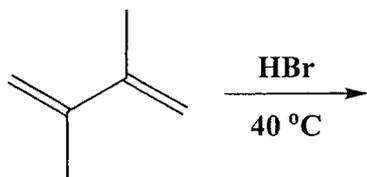
(e) *CIP system or the R-S system* (6%)

(b) *Aromaticity* (5%)

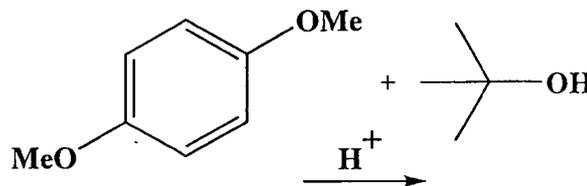
(d) *Conjugated double bonds* (5%)

(II) Give the structures of the major organic products of the following reactions : 2 points each

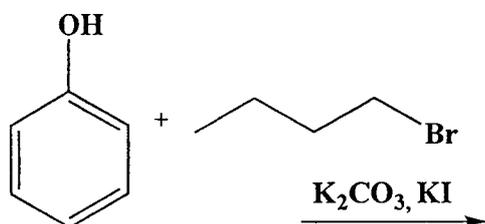
(1)



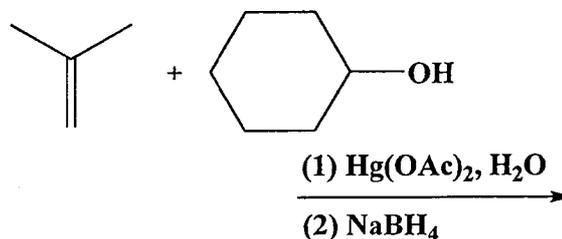
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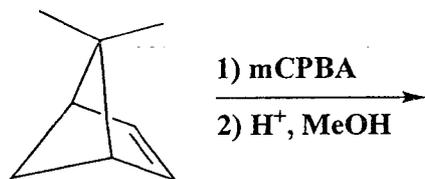
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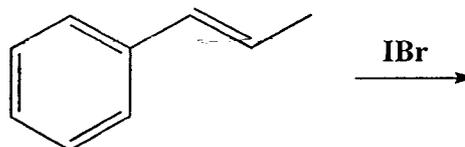
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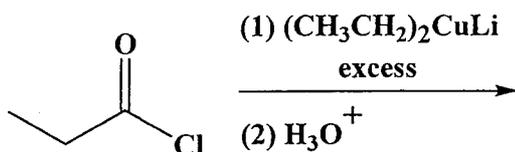
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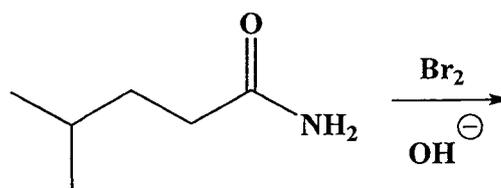
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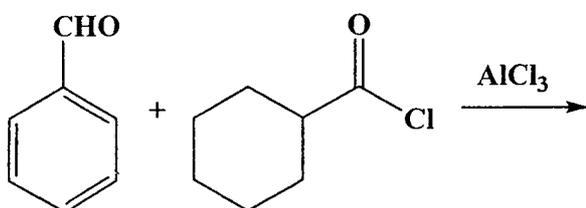
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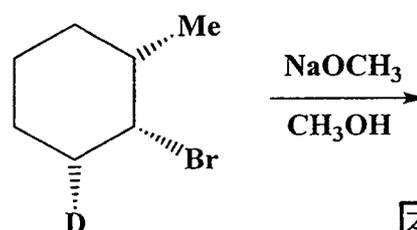
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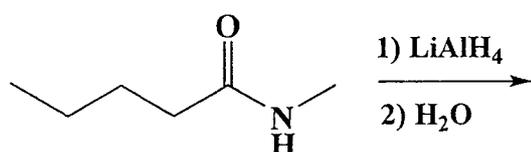
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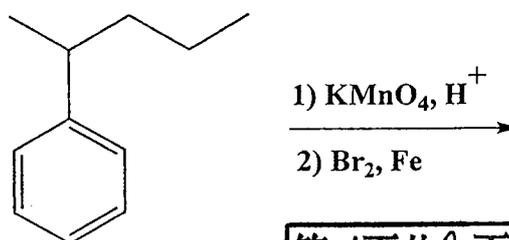
(10)



(11)



(12)



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二

分析化學(50%)可以使用非記憶型計算機

1. (30%,每一小題 3%)請解釋下列名詞

a. P functions

b. Beer's law

c. Acid Rain

d. Nernst equation

e. Le Châtelier Principle

f. Van Deemter equation

g. Parts per million

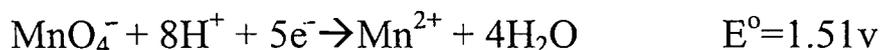
h. NMR

i. Normal error curve

j. TGA

2. (5%)請由 71.0% HClO_4 (w/w)比重為 1.67 試劑,配 2.00L,濃度為 0.120M HClO_4 溶液.

3. (5%)請由下列兩半反應,計算 全反應電位 與 平衡常數



4. (5%)於 AA 測試中,若產生光譜干擾現象,請問有哪些方法可以做校正之?

5. (5%)請繪出 pH meter 所使用之 glass electrode 的結構與其運作原理.

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本試題探
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