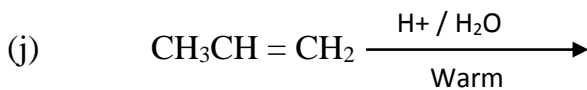
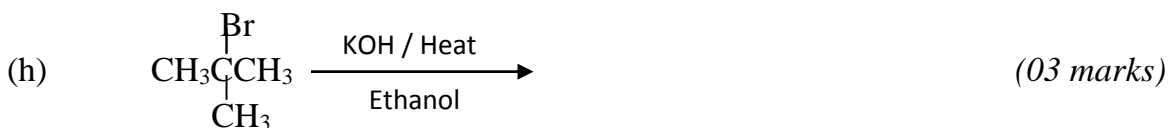
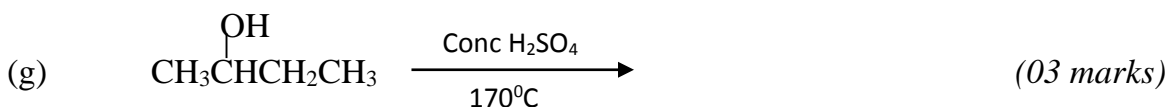
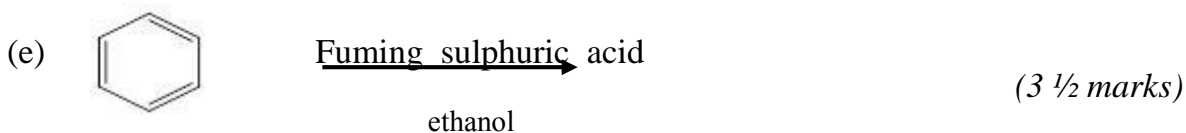
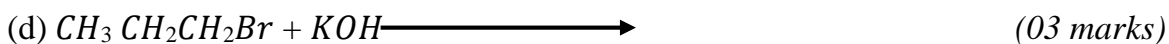
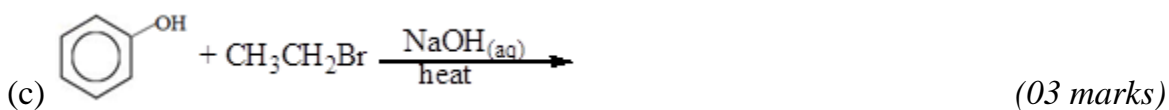
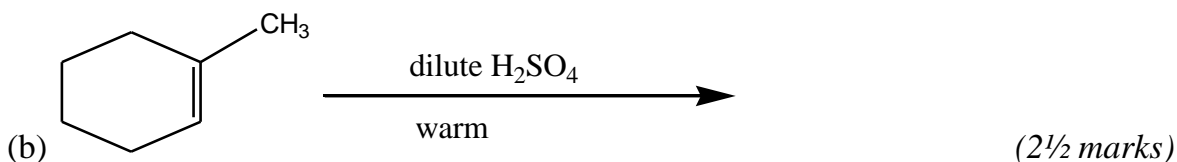
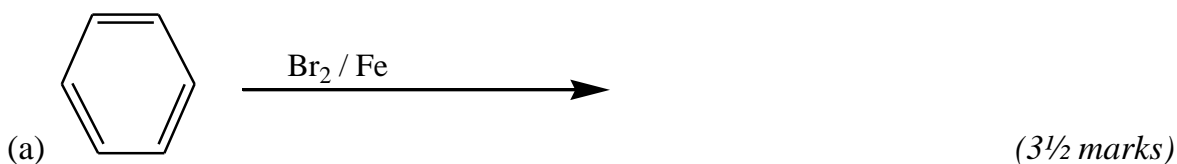
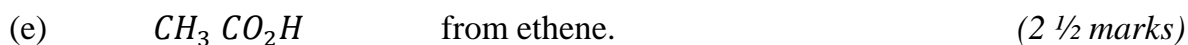
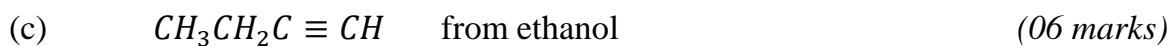
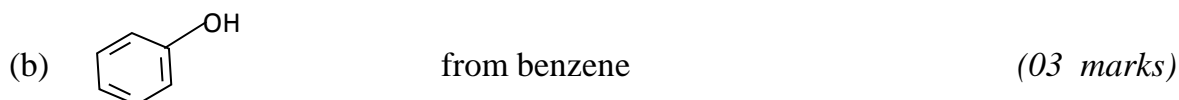
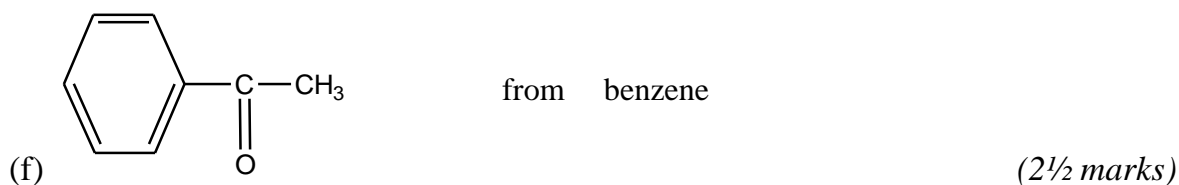
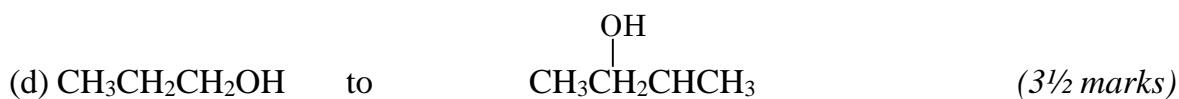
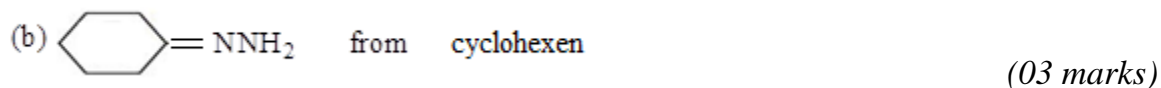
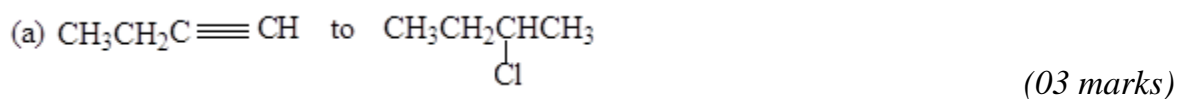


ORGANIC CHEMISTRY WEEKEND QUESTIONS

1. Complete the following organic reactions and outline the accepted reaction mechanism.



2. Write equations to show how the following synthesis can be carried out




3. Name a reagent that can be used to distinguish between the following pairs of ions. In each case, state what would be observed if each ion is separately treated with the reagent you have named.

(a) $\text{HCO}_3^-_{(\text{aq})}$ and $\text{CO}_3^{2-}_{(\text{aq})}$ (03 marks)

Reagent

Observation.....

(b)  $\text{N}^+ \equiv \text{N}_{(\text{aq})}$ and $\text{CH}_3\text{CH}_2\text{N}^+ \equiv \text{N}_{(\text{aq})}$ (03 marks)

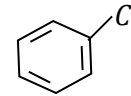
Reagent

Observation.....

(c) $\text{NO}_2^-_{(\text{aq})}$ and $\text{NO}_3^-_{(\text{aq})}$ (03 marks)

Reagent

Observation

(d)  and $\text{CH}_3\text{CH}_2\text{CH}_2\text{Cl}$ (03 marks)

Reagent:.....

Observation:.....

(e)  and $\text{CH}_3\text{CH}(\text{OH})\text{CH}_3$ (03 marks)

Reagent:.....

Observation:.....

(f) $\text{SO}_3^{2-}_{(\text{aq})}$ and $\text{SO}_4^{2-}_{(\text{aq})}$ (03 marks)

Reagent

Observation