• Give the name of the starting material where indicated and the constitutional formula of the major organic product formed in each of the following reactions.

Marks 3

$$\begin{array}{c|c} & Cl_2 \\ \hline & CCl_4 \text{ (solvent)} \end{array} \longrightarrow \begin{array}{c} Cl \\ \hline \end{array}$$

Name: 2-methyl-2-pentene

$$\begin{array}{c|c} & & \text{dilute } H_2SO_4 \\ \hline & & & & & & & & \\ \hline \end{array} \rightarrow HO$$