• For each of the following pairs of compounds, identify which is the stronger acid and give reasons for your choice.

Marks 3

$$\begin{array}{c|c} O & & & O \\ \hline O & & & \\ O & & & \\ \hline O & & \\ \hline (P) & & & \\ \hline \end{array}$$
 and 
$$\begin{array}{c|c} O & & \\ \hline O & & \\ \hline O & \\ \hline O & \\ \hline \end{array}$$

 $(\mathbf{R})$  and  $(\mathbf{S})$ 

$$CF_3CO_2H$$
 and  $CH_3CO_2H$  (U)