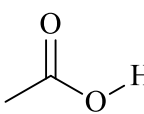
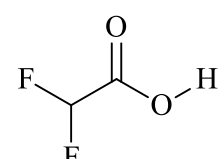
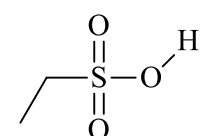
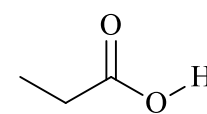
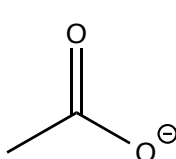
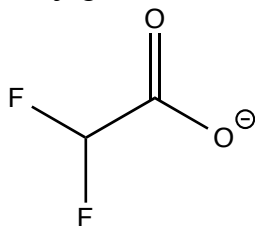
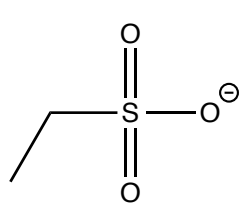
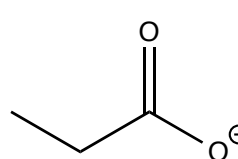


Marks
5

- Draw the conjugate bases for the following acids.

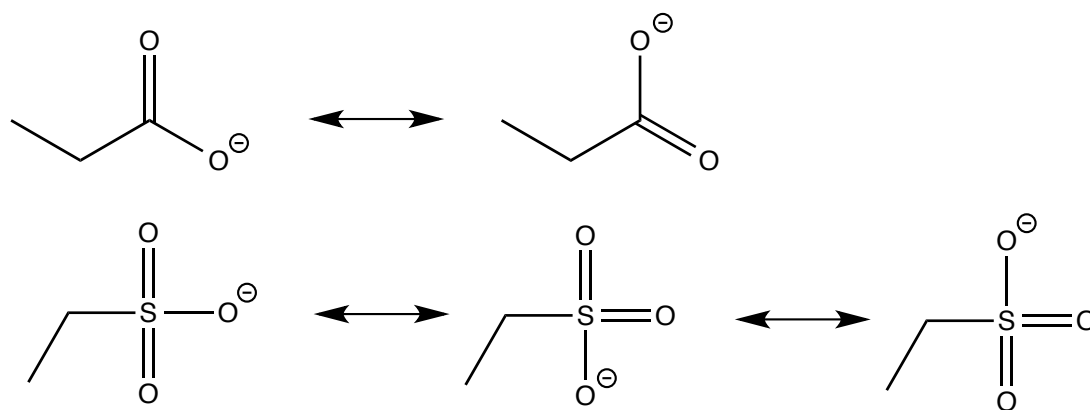
S 	T 	U 	V 
Conjugate base of S 	Conjugate base of T 	Conjugate base of U 	Conjugate base of V 

Which of **S** and **T** is the stronger acid? Give a reason for your answer.

T will be a stronger acid. In acting as an acid, the conjugate base will be formed. The conjugate base of **T** is more stable than that of **S** as the electronegative fluorine atoms will withdraw electron density from the negatively charged O atom.

Which of **U** and **V** is the stronger acid? Give a reason for your answer.

U is a stronger acid than **V** because the conjugate base is more stable. Both are stabilised by resonance which acts to delocalise the negative charge over the electronegative O atoms present:



For the conjugate base of **U**, the negative charge is delocalised over 3 O atoms.
 For the conjugate base of **V**, the negative charge is only delocalised over 2 O atoms