Acids and Bases

Weak acids = More Stable Strong acids = less Stable

Weak bases = More Stable Strong bases = less Stable

Weak bases (Stable) go with Strong acids (less Stable)

Strong bases (less stable) go with weak acids (stable)

The more electronegative an atom, the more stable it is to hold a negative charge (0-vs N-vs c-)

more

Stable

less

Stable

Your Answer

Correct Nitrogen is more electronegative than carbon and can better stabilize the negative charge that will be generated upon deprotonation. Therefore, a proton connected to a carbon atom.

The blue proton is more electronegative to be more acidic than a proton connected to a carbon atom.

The blue proton is more electronegative nitrogen atom.

Solve the stable, with a negative charge on the more electronegative introgen atom.

The red proton is more acidic because its conjugate base is more stable, with a negative charge on the more electronegative introgen atom.

The red proton is more acidic because its conjugate base is more stable, with a negative charge on the less electronegative carbon atom.

The red proton is more acidic because its conjugate base is more stable, with a negative charge on the less electronegative carbon atom.

Practice question from wiley that explains this Concept well