Marks • Complete the following table. Give, as required, the formula, the systematic name, the 5 oxidation number of the underlined atom and, where indicated, the number of delectrons for the element in this oxidation state. Number of Oxidation Formula Systematic name number *d* electrons $\underline{C}O_2$ Na₂CrO₄ FeCl₃·3H₂O potassium sulfate • Draw the Lewis structures, showing all valence electrons for the following species. 3 $\mathrm{CH_3}^+$ CH_3^-

Indicate which of these species you expect will be more stable and explain why.