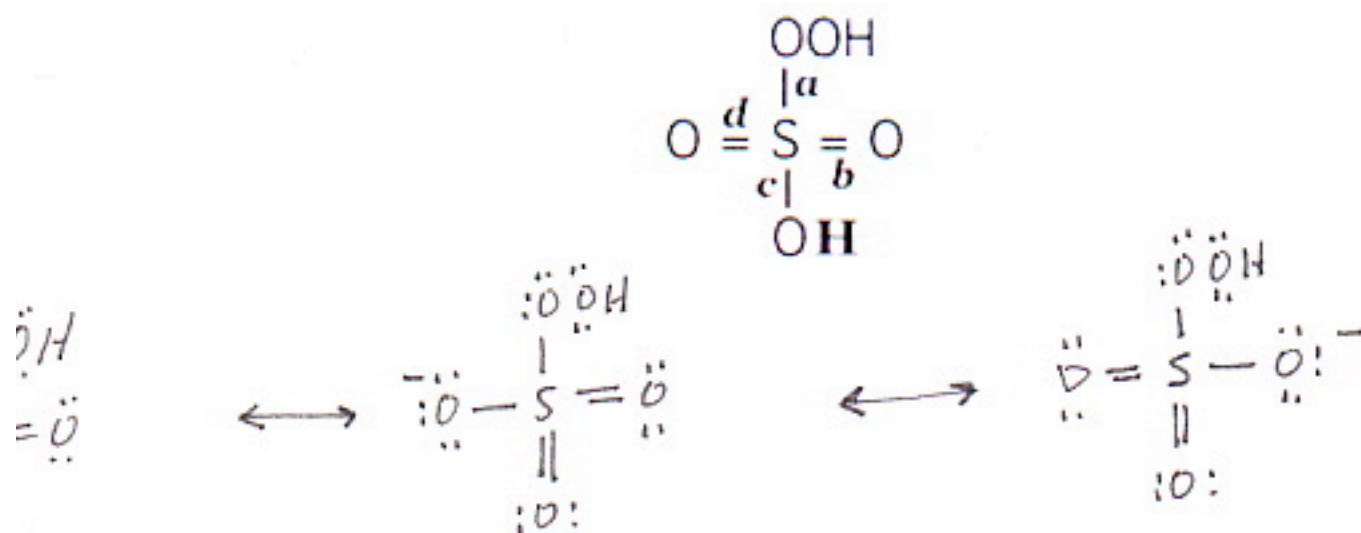


(not the Lewis structure) is shown below. When it loses its acidic hydrogen (in bold), the anion instruct a complete, preferred Lewis structure for this ion so that you may determine the bond order of sulfur-oxygen bonds labeled **a-d** in the figure.



b $\frac{5}{3}$ **c** $\frac{5}{3}$ **d** $\frac{5}{3}$

(are) longest? a

chlorate ion from the dissociation of perchloric acid (molecular structure shown below) has four bonds. What are the Cl-O bond orders in the perchlorate ion, ClO_4^- ?

