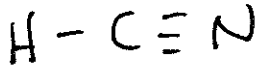


Extra work

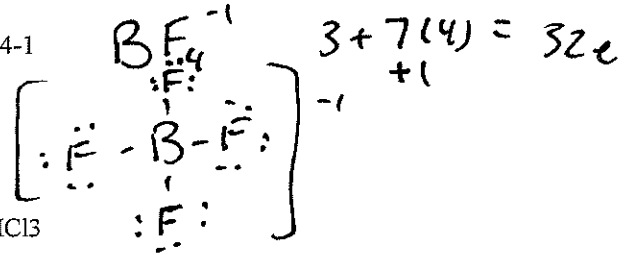
AP Chemistry
Extra Lewis structure

FOR EACH OF THE FOLLOWING DRAW A LEWIS DOT PICTURE

1. HCN

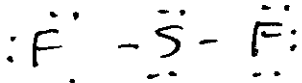


2. BF_4^-



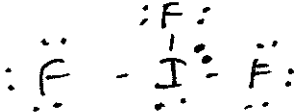
3. SF_2

$$6 + 7(2) = 20$$

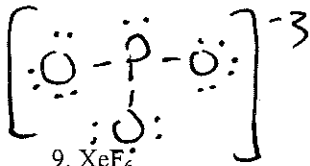


5. IF_3

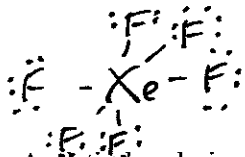
$$7(4) = 28$$



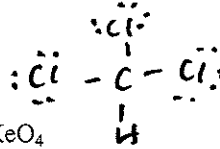
7. PO_3^{3-}



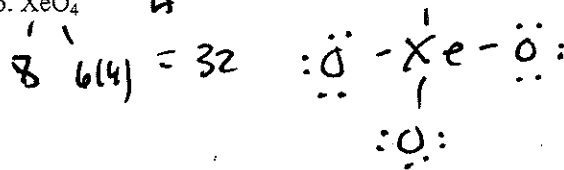
9. XeF_6



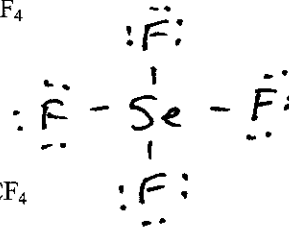
4. $CHCl_3$



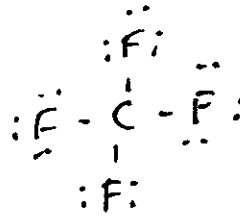
6. XeO_4



8. SeF_4



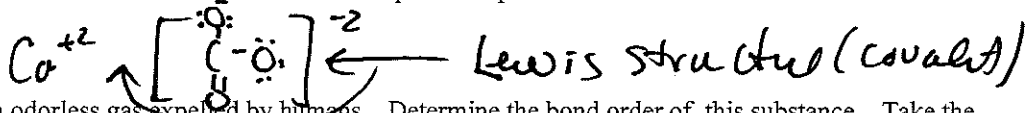
10. CF_4



Analytical analysis of Covalent Bonding:

$CaCO_3$ is a common mineral found in limestone.

11. Is this substance ionic or covalent or both? Explain. If possible draw a Lewis structure.



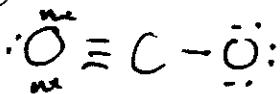
12. CO_2 is an odorless gas expelled by humans. Determine the bond order of this substance. Take the total bonds and divide them by the total bond regions.

- Bond order 1 = single bond
- Bond order 2 = double bond
- Bond order 3 = triple bond

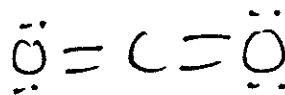
• Draw a Lewis structure.

Ionic — Forms bulk crystal

Missing Resonance



$$\frac{4 \text{ Bonds}}{2} = 2$$



$$\frac{4}{2} = 2$$