FOR EACH OF THE FOLLOWING DRAW A LEWIS DOT PICTURE

1. HCN

2. BF₄⁻¹

3. SF₂

4. CHCl₃

5. IF₃

6. XeO₄

7. PO₃³⁻

8. SeF₄

9. XeF₆

10. CF₄

Analytical analysis of Covalent Bonding:

CaCO₃ is a common mineral found in limestone.

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

12. CO₂, 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.

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\text{Lewis structure (covalent)} \quad \text{Forms bulk crystall}\]

\[
\frac{4 \text{ Bonds}}{2} = 2
\]

\[
\frac{1}{2} = 2
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