

Draw the LDMS for the following molecules and list the number of shared and lone pairs of electrons around the central atom. (The central atom is underlined).

1. CH<sub>4</sub>
2. NH<sub>3</sub>
3. HF
4. Br<sub>2</sub>
5. CH<sub>3</sub>OH
6. O<sub>2</sub>
7. N<sub>2</sub>
8. CH<sub>3</sub>COOH
9. HCN
10. HClO
11. C<sub>2</sub>H<sub>2</sub>
12. CH<sub>2</sub>Cl<sub>2</sub>
13. C<sub>2</sub>Cl<sub>2</sub>
14. H<sub>2</sub>Te
15. NI<sub>3</sub>
16. NO<sub>2</sub><sup>-1</sup>
17. NO<sub>3</sub><sup>-1</sup>
18. SO<sub>4</sub><sup>-2</sup>
19. SO<sub>3</sub><sup>-2</sup>
20. CO<sub>3</sub><sup>-2</sup>