**BODACIOUS BONDING BONANZA**

**SrCl₂(s)**  **NH₃(g)**  **Pb(NO₃)₂(s)**  **C₆H₁₂O₆(s)**  **CO₂(s)**  **KI(s)**  **Fe(s)**  
**CH₄(g)**  **Cr(s)**  **H₂O(l)**  **NH₄⁺(aq)**  **I₂(s)**

1. Solid compounds that are found in crystals that conduct electricity: a)________ b)_________

2. Solid compounds that are found in crystals that do not conduct electricity: 
   a)_________ b)_________ c) ___________

3. Solid compounds that are found in crystals that will conduct electricity only when melted or dissolved in an aqueous solution: 
   a)_________ b)_________ c) ___________

4. Compound that has both ionic and covalent bonds: a)_________

5. Compounds that have ionic bonds: 
   a)_________ b)_________ c)__________

6. Compounds that have covalent bonds: 
   a)_________ b)_________ c)_________ d) _________ e)_________
   f) _________ g) __________

7. Soft Solids with low melting points and no electrical conductivity: a)_________ b)_________

8. Molecular Solids: a)_________ b)_________ c)_________ c)__________

9. These two chemical species are ductile and malleable. a)_________ b)_________

10. These two chemical species form colored aqueous solutions a)_________ b)_________

11. These two chemical species form metallic bonds a)_________ b)_________

12. Compounds that are nonpolar but have polar bonds: a)_________ b)_________ c)_________

13. Chemical compounds that are polar: a)_________ b)_________ c)_________

14. Compound(s) that are nonpolar with nonpolar bonds: a)_________

15. Compound(s) that are sharing electrons equally: a)_________

16. The molecule that has a bent shape: a)_________

17. The molecule that has a tetrahedral shape: a)_________ b)_________

18. The molecule that has a coordinate covalent bond a) ___________

19. These compounds are also known as “salts” a)_________ b)_________ c)_________

20. These compounds are known as “electrolytes” a)_________ b)_________ c)_________
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