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1. (b)
2. (c)
3. (d)
4. (a)
5. (a)
6. (c)
7. (b)
8. (b)
9. (c)
10. False. The *formula unit* for the compound sodium chloride is NaCl(s) . Or The *chemical formula* for the compound sodium chloride is NaCl(s) .
11. False. The chemical bond that forms between a hydrogen atom and a chlorine atom will be *polar covalent*.
12. True
13. False. A molecule of carbon dioxide would have carbon–oxygen *double* bonds in its Lewis structure.
14. False. In the periodic table, electronegativity values increase from *bottom* to *top* and from left to right.
15. True
16. True
17. False. The chemical formula for the meat preservative sodium nitrite is NaNO_2 .
18. False. The chemical formula for the compound tin(IV) sulfide is SnS_2 .
19. False. The charge on the chromate ion in the compound potassium chromate, $\text{K}_2\text{CrO}_4(\text{s})$, is -2 .
20. True