

AP Chemistry Practice Test Chapter 8 and 9

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. Which pair of atoms should form the most polar bond?
a. F and B
b. C and O
c. F and O
d. N and F
e. B and N
- _____ 2. Which pair of ions should form the ionic lattice with the highest energy?
a. Na^{1+} and Br^{1-}
b. Li^{1+} and F^{1-}
c. Cs^{1+} and F^{1-}
d. Li^{1+} and O^{2-}
e. K^{1+} and F^{1-}
- _____ 3. The electrostatic force of attraction is greatest in which compound?
a. BaO
b. MgO
c. CaS
d. MgS
e. CaO
- _____ 4. Which molecule has the weakest bond?
a. CO
b. O_2
c. NO
d. N_2
e. Cl_2
- _____ 5. For which species are octet resonance structures necessary and sufficient to describe the bonding satisfactorily?
a. BCl_3
b. SO_2
c. CO_2
d. BeF_2
e. SO_4^{2-}
- _____ 6. How are the bonding pairs arranged in the best Lewis structure for ozone?
a. $\text{O}-\text{O}-\text{O}$
b. $\text{O}=\text{O}-\text{O}$
c. $\text{O}=\text{O}=\text{O}$
d. $\text{O}=\text{O}=\text{O}$
e. $\text{O}=\text{O}=\text{O}$
- _____ 7. Which species has the shortest bond length?
a. CN^{1-}
b. O_2
c. SO_2
d. SO_3
e. CO_2
- _____ 8. Which species requires the least amount of energy to remove an electron from the outermost energy level?
a. Na^{1+}
b. He
c. F^{1-}
d. O^{2-}
e. Mg^{2+}
- _____ 9. Which species has a valid non-octet Lewis structure?
a. GeCl_4
b. SiF_4
c. CO_3^{2-}
d. SeCl_4
e. CO_3^{2-}

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Marcel A. Müller



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