

Chemistry
EOC Review 4: Bonding

1. Which formula represents a molecular substance?
 - a. CaO
 - b. CO
 - c. Li_2O
 - d. Al_2O_3
2. Which sequence of Group 18 elements demonstrates a gradual decrease in the strength of the Van der Waals forces? All the choices are elements in the liquid state.
 - a. Ar, Kr, Ne, Xe
 - b. Kr, Xe, Ar, Ne
 - c. Ne, Ar, Kr, Xe
 - d. Xe, Kr, Ar, Ne
3. Which substance is an example of a network solid?
 - a. nitrogen dioxide
 - b. sulfur dioxide
 - c. carbon dioxide
 - d. silicon dioxide
4. Which combination of atoms can form a polar covalent bond?
 - a. H and H
 - b. H and Br
 - c. N and N
 - d. Na and Br
5. A strontium atom differs from a strontium ion in that the atom has a greater
 - a. number of electrons
 - b. number of protons
 - c. atomic number
 - d. mass number
6. Which bond has the greatest ionic character?
 - a. H---Cl
 - b. H---F
 - c. H---O
 - d. H---N