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| **#** | **Question** | **Answer** | | |
| **1** | What is the octet rule? Explain its role in bonding between atoms |  | | |
| **2** | Indicate how many electrons must be gained or lost by each of the following atoms to achieve a stable electron configuration  (3 lost, 2 gained, etc) | 1. Sr 2. Sb 3. Si | | 1. S 2. Se 3. Xe |
| **3** | Which of the following pairs of elements will **not** form ionic compounds? Explain why or why not for each pair. | Sulfur and Xenon | | Sodium and Calcium |
| Strontium and Sulfur | | Selenium and Chlorine |
| **4** | Draw the Lewis Structure for the following Ions or Compounds | | | |
| 1. K | | 1. K+ | |
| 1. Ba2+ | | 1. BaF2 | |
| 1. C | | 1. C4- | |
| 1. MgO | | 1. S2- | |
| 1. Br | | 1. Na2S | |

Lewis Structures of Atoms, Ions and Ionic Compounds WS

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