|  |  |  |
| --- | --- | --- |
| **#** | **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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