<table>
<thead>
<tr>
<th>#</th>
<th>Question</th>
<th>Answer</th>
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<tbody>
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<td>1</td>
<td>What is the octet rule? Explain its role in bonding between atoms</td>
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| 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) | a) Sr  
    b) Sb  
    c) Si  
    d) S  
    e) Se  
    f) 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              | a) K  
    b) Ba^{2+}  
    c) C  
    d) MgO  
    e) Br  
    f) K^+  
    g) BaF_2  
    h) C^4-  
    i) S^2-  
    j) Na_2S |