1. Show how the chemical change of hydrogen forming H\(^-\) (the hydride ion) obeys the octet rule. (1 points)

2. What is the total number of valence electrons in the CCl\(_4\) molecule? (1 point, circle only one answer)
   a. 8
   b. 16
   c. 24
   d. 32
   e. 74

3. In each case, tell whether the bond is ionic, polar covalent, or nonpolar covalent.
   a. SrF\(_2\) (1 point)
   b. SiH\(_4\) (1 point)

4. Draw the Lewis dot structure of the molecule H\(_2\)O\(_2\). Remember to include lone pairs where appropriate. (3 points):

5. Predict which ions are stable. (1 point each):
   a. Li\(^{2+}\)
   b. C\(^{4-}\)

6. What is the correct formula for thallium(I) bicarbonate? (1 point, circle only one answer)
   a. TaCO\(_3\)
   b. Ta(HCO\(_3\))\(_2\)
   c. Tl\(_2\)CO\(_3\)
   d. TlHCO\(_3\)
   e. Tl(HCO\(_3\))\(_2\)

POINTS:_________(of 10)