Name:_____

Chemistry 30 Unit 1 Exam Part 1 /12

Materials Science

This section of the exam will be given as a take home exam. You can write down your answers before the exam and take it into the exam with you. This section of the exam must be handed in with the in class portion of the exam. If you do not have your copy with you at the time of the scheduled in class exam, I will provide you with a new blank copy to complete.

1. Give 2 reasons why we learn about the history of the model of the atom (2 marks):

2. Explain how you would identify whether a compound is ionic or covalent, based on the chemical formula. (2 marks)

3. Explain why nonmetal atoms tend to form anions when they become ions (2 marks)

(turn over)

4. Explain the relationship between the position of an element on the periodic table and its number of valence electrons. (4 marks)

5. You are determining polarity for a compound and subtract the electronegativities of the elements. You find the difference is greater than 0.4. You know that this doesn't necessarily mean the compound is polar. What are two reasons it might not be polar? (2 marks)