**Molecular Compound Assignment – Due: December 22, 2016**

**Section 5.11 – Multiple Choice – Value 5**

1. Covalent bonds are due to the:

(a) transfer of electrons from one atom to another;

(b) gain or loss of electrons by atoms;

(c) sharing of two electrons by two atoms.

2. A covalent bond would most likely form between a:

(a) chlorine atom and a magnesium atom;

(b) chlorine atom and another chlorine atom;

(c) sodium atom and a fluorine atom;

3. Which of the following is a molecular compound held together by covalent bonds?

(a) NaCl

(b) MgO

(c) CsF

(d) NH3

(e) CaBr2

4. When atoms form chemical bonds they can:

(a) gain electrons only;

(b) lose electrons only;

(c) lose, gain, or share electrons.

5. The following sketch of a Bohr diagram show how hydrogen and nitrogen atoms form a stable molecule. The correct formula representing the hydrogen and nitrogen diagram is:



1. H3N
2. NH3
3. N3H

**Molecular Compounds – Value 16**

1. Give the compound name or formula as required.

1. SO2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. CF4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. NBr3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. CS2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. carbon dioxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. nitrogen phosphide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. silicon tetrabromide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. chlorine oxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_