**Chemistry 20 – Lesson 11**

**Electronegativity and molecular shapes**

**/48**

**Part A**

In the following diagrams draw an arrow to indicate the direction of the polar bond.

N

I

H

C

B

F

N

H

/6

C

O

N

H

C

Cl

Br

Cl

S

C

I

I

F

F

H

H

Explain why cesium and francium are the most reactive metals.

/2 **Cesium and francium have low electronegativities which means that they give up electrons very easily. Since metals react by giving away their electrons, cesium and francium are the most** **reactive**.

Explain why fluorine is the most reactive non-metal.

/2 **Fluorine has the highest electronegativity which means that it holds on to electrons very strongly. Since nonmetals react by taking electrons from metals, fluorine is the most** **reactive nonmetal**.

**Part B**

2 marks each





