NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_PRACTICE: MOLECULE VS IONIC COMPOUND

Pretty Much: Molecules tend to be made from nonmetal atoms bonded to other nonmetal atoms via covalent

bond(s)

Pretty Much: Covalent compounds are a synonym for the term molecular compound (molecules)

Pretty Much: Not all molecules are compounds – some may be elements (e.g. S8, P4, F2)

Pretty Much: Ionic compounds are made with ionic bonds (electrostatic charge attraction)

Pretty Much: Ionic compounds, in their simplest form, are metal cations bonded to nonmetal anions. WE

MAY ASSUME THAT IS A FAIRLY SIMPLE COMPOUND HAS A METAL IN IT, THE

COMPOUND EXHIBITS PRIMARILY IONIC COMPOUND TRAITS.

Use your periodic table and identify the following as either

a) molecules (either molecular compounds or molecular elements) or

b) ionic compounds.

answers: 1) b 2) b 3) a 4) b 5) a 6) a

7) a 8) a 9) b 10) a 11) a 12) a 13) b 14) b 15) b

1) \_\_\_ MgO

2) \_\_\_ CaCl2

3) \_\_\_ NH3

4) \_\_\_ LiF

5) \_\_\_ CCl4

6) \_\_\_ SO2

7) \_\_\_ Br2

8) \_\_\_ O3

9) \_\_\_ Na2S

10) \_\_\_ COCl2

11) \_\_\_ CO2

12) \_\_\_ C6H12O6

13) \_\_\_ KF

14) \_\_\_ NaOH

15) \_\_\_ CaCO3