

Name: _____

date: _____ period: _____

Ch. 5 chemical bonds & chemical name / formula

test

50 points (2 ec)

ngss chemistry

1. Fill-in the below table (fake chemical ?) [10 points]

Chemical formula	Chemical name
H_2O_2	Hydrogen peroxide
$Cu(NO_3)_2$	Copper (II) nitrate
NaH	sodium hydride
$Sn(OH)_2$	tin (II) hydroxide
Si_2O_5	disilicon pentoxide

2. What is the basis of a covalent bond ? [5 points]

⊕ = ⊕
2 pt
2
1 pt
protons in nucleus of atoms in bond
mutual attraction to shared e-

3. What is the basis of an ionic bond ? [5 points]

- involve ions
- attraction between cation & anion

4. Identify, by name, the atoms and the number of each atom in one molecule of _____. [12 points]

a. $Mg(NO_3)_2$

magnesium : 1

nitrogen : 2

oxygen : 6

b. $CH_3(CH_2)_3OH$

carbon : 4

hydrogen : 10

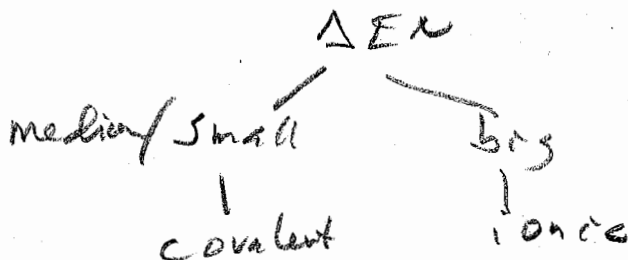
oxygen : 1

5. Qualitatively, [10 points]

a. what is electronegativity?

how atoms 'wants' another atom's e^-

b. relate the difference in electronegativity in 2 atoms in a chemical bond to the type of the chemical bond.



6. What happens to the valence electrons in the atoms involved in a / an ___ bond? [10 points]

a. covalent

share

b. ionic

transfer