

Name: _____

Period: _____

Seat#: _____

These are the questions that went with WS #12 Bing Bing Toe Game. For any questions you did not complete in class, use this paper to finish the problems on WS #12. Put your work and answers on WS #12 not this paper, this is just the questions! This must be included in your rainbow packet!

- 1) How many valence electrons does Aluminum have?
- 2) How is a covalent bond formed?
- 3) What is the name given to the electrons in the highest occupied energy level of an atom?
- 4) What does calcium do in order to form an ionic bond?
- 5) What is the formula for sodium sulfate?
- 6) Draw the Lewis dot structure for carbon dioxide and how many lone pairs does it have?
- 7) What is the electron configuration for Strontium?
- 8) What is the name of the following compound: $\text{Cu}(\text{SO}_4)_2$
- 9) Draw the Lewis dot structure for peroxide
- 10) What is the charge on the compound sodium sulfide?
- 11) Which is more electronegative – Oxygen or carbon?
- 12) What kind(s) of elements do you (usually) need to form an ionic compound?
- 13) When can you form an ionic bond without having a metal present?
- 14) What is wrong with the following formula? Cu_2O_4
- 15) fill in the blanks: ionic bonds form when one atom has ____ electron affinity and one has ____ ionization energy
- 16) How many e- does BARIUM give up to achieve a noble gas config.? What is that config. In noble gas format?
- 17) What type of elements do you need to form a covalent bond?
- 18) What type of bond is in copper and describe how the e-'s behave in this type of bond?
- 19) What is the name of the following compound? $\text{Cr}_3(\text{PO}_4)_2$
- 20) Complete the following rxn and name the type of rxn. ${}^{42}_{19}\text{K} \rightarrow {}^0_{-1}\text{e} + ?$
- 21) Do covalent bonds exhibit high or low electronegativity differences?
- 22) Name the Diatomic elements.
- 23) Write the formula for potassium nitrate.
- 24) Draw the Lewis dot structure for beryllium fluoride.
- 25) What is the formula for CH_4 ?
- 26) Draw the Lewis str. for sulfur hexaiodide.
- 27) What is the name of the compound Si_2Br_6
- 28) What is the name for the following compound? P_4O_{10}
- 29) What is the formula for silver nitrate?
- 30) What is the formula for potassium chlorite?
- 31) What is the formula of the compound strontium phosphite?
- 32) Why is a water molecule bent? Draw me a picture!
- 33) What is the formula of the compound strontium phosphide?
- 34) How many items are in a mole?
- 35) What is the name of the polyatomic ion NH_4^+ ?