

Vasquez High School -- Physical Science -- S'15 Quest #7 -- Chapter 17 -- 65 points

Write TRUE if the statement is true OR write the word(s) that substitute for the underlined word(s) that would make it true. Writing false only earns partial credit. Three points each.

- _____ 1) The most highly reactive metals are the transition metals.
- _____ 2) Elements that conduct an electric current under certain conditions are called semiconductors.
- _____ 3) Halogens exist as isolated atoms in nature.
- _____ 4) The branch of chemistry that concerns itself with carbon compounds is called carbon chemistry.
- _____ 5) Plutonium belongs to the actinide series of elements.
- _____ 6) Elements with unstable nuclei are said to be ionic; they give off particles and energy.
- _____ 7) The most important element to the computer chip making industry is oxygen.
- _____ 8) Gold is an example of an element that is ductile.
- _____ 9) Iron is the most abundant metal in the Earth's crust.
- _____ 10) Non-metals are poor conductors of heat and electricity.

Short Answer/Fill-in. Be neat and complete. Three points each.

- 11) What is a diatomic molecule? Give an example. _____
_____.
- 12) Name three allotropes of carbon: _____, _____, _____.
- 13) Elements which have both metallic and non-metallic properties are called _____.
- 14) When metals combine with non-metals to form _____, they lose _____.
- 15) Circle the element which does not belong with the rest:
magnesium barium strontium lithium beryllium
- 16) Circle all of the elements shown here that are liquid at room temperature:
mercury silver nitrogen lead bromine fluorine iodine
- 17) What are two features of a metallic bond? _____

Multiple Choice. Write the letter which best answers each example. Two points each.

_____ 18) The lightest element is

- a) helium b) oxygen c) neon d) hydrogen

_____ 19) Halogens form _____ when combined with metals.

- a) allotropes b) ions c) salts d) non-metals

_____ 20) Vulcanized rubber is made by adding _____ to the rubber during its manufacturing.

- a) iron b) sulfur c) plastic d) carbon

_____ 21) Which element does NOT form a diatomic covalent bond?

- a) carbon b) nitrogen c) oxygen d) fluorine e) they all do

_____ 22) Most glowing light bulb filaments are made from

- a) chromium b) platinum c) tungsten d) titanium e) steel

_____ 23) Calcium carbonate is found in all of the following EXCEPT:

- a) human bones b) marble statues c) kitchen countertops d) limestone minerals

_____ 24) The gas commonly found within fluorescent light bulbs:

- a) argon b) fluorine c) neon d) nitrogen e) none

_____ 25) Which is not a fact about phosphorus?

- a) It was found in pig urine. b) It has three allotropes. c) It is used to make matches.
d) It is found in every cell of your body. e) All are facts about phosphorus.

_____ 26) About what percent of the human body's mass is oxygen?

- a) 90% b) 78% c) 60% d) 40% e) 21%

_____ 27) Mendeleev predicted the existence of _____ 18 years before it was discovered.

- a) germanium b) silicon c) arsenic d) antimony e) cheese

EXTRA CREDIT. Three points. Guessing is okay.

28) What element is the central atom in chlorophyll? (Hint: It's on the test somewhere.)