Vasquez High School -- Earth Science -- Test #4 -- Chapter 5 -- 85 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) When minerals break in directions other than along cleavage surfaces, they are said to exhibit breakage.
2) The crystalline structure of diamond and quartz are both <u>tetrahedral</u> .
3) Bubbles of carbon dioxide form on the surface of a <u>carbonate</u> mineral when acid is applied.
4) Orthoclase and plagioclase are two forms of the mineral granite.
5) The second most abundant element in the Earth's crust is <u>oxygen</u> .
6) The <u>luster</u> of a mineral is how it shines in the light.
7) Compound minerals made up of oxygen and silicon are called <u>hematites</u> .
8) Atoms of the same element having different sums of protons and neutrons are called atomic masses9) Sulfides, such as the pyrites, contain the element sulfur in their chemical make-up.
10) An <u>element</u> is a substance that cannot be broken down into simpler substances by ordinary means.
Fill-in/Short Answer Be neat and complete read what you wrote before moving on. Three points each.
11) Name three non-metals by name:
12) Name three of the definitions that make a substance a mineral:
13) The three subatomic particles in most atoms are, and
14) What makes an atom become an ion?
15) What is the same about graphite and diamond and what makes them different?
Name the minerals you are shown by the teacher:
16) 17) 18)
19) Look at this symbol: ²³⁵ U How many electrons does it have?

20) The two most common elements in the known universe (in order) are ar	ıd
21) The most most common metals in the Earth's crust (in order) are and	
22) Name three of the special properties that would help identify a mineral:	
23) For six points, give the three types of chemical bonding, how each handles electrons, and in what form example you would find them. a)	or
b)	
c)	
24) For six points, name any three properties, except color, that one could use to identify a mineral. You must also define what that property means.	
a) b)	_
c)	
25) Of all the minerals I have seen, my favorite was	
EXTRA CREDIT Two points each. Guessing is okay.	
26) Name a commonly blue mineral:	
27) Name one of the two elements that makes up the mineral galena:	
28) Augite is the most common member of the family of minerals.	
29) The newest type of carbon, often shaped like a soccer ball, is called a	
30) Name any crystal system besides the cubic system:	