PRACTICE QUIZ ASSIGNMENT _CHE101 SUMMER 2020
(CHAPTER 1 & 2, THIS IS A GUIDELINE NOT ACTUAL QUESTIONS)
(TO SOLVE CONSULT YOUR CHAPTER PPTS & BOOKS)

1. (1 point) Express 0.000 000 000 064 7 in scientific notation.

2. (1 point) Rewrite 5.16×10^8 in a non-exponential form.

3. (2 = 1 point each) how many significant figures are suggested in the values below?

   a) 0.005 008 00 # sig figs = _____
   b) 4 300 # sig figs = _____

4. (2 points) perform the following calculation. Express your answer in **scientific notation** and **with an appropriate number of significant figures**.

$$\frac{6.23 \ x \ 10^{-4}}{(5.1 \ x \ 10^{2})(3.49 \ x \ 10^{8})} =$$

5. (1 point) How many gigabytes are equal to 4.5×10^{11} bytes? (HINT: 1 Gbyte = 10^9 bytes)

6. (1 point) If 1.00 noggin (a British unit) is equivalent to 142 cm^3, how many noggins are there in 524 cm^3?
7. (2 point) Dry ice goes from the solid to the gas state at –80.5 ^oC. What is the equivalent temperature in ^oF and K?
8. how many neutrons are found in the **nucleus** of '**X**' atom?

9. (1point) what atom has **X-number** of protons?

10. (1point) How many electrons are present in an ion, $\mathbf{X^{n+}}$**?**

11. (1point) what is the proper isotopic notation for a **+3 ion of an atom?**

12. (1point) who gathered the current understandings of science into the **atomic theory/Proton/Ionic** of matter? (Circle one)

13. (1points) to which category of elements does **Y** belong? (Circle one)

14. (2 points) calculate the average atomic mass of an element who's naturally occurring isotopes are **X% of A amu** atoms and **Y% of B amu** atoms.

15. (2 points) someone is watching his blood sugar (glucose) to prevent the onset of diabetes. Overnight-fasting reading Friday was **X** mg/dL (Any value less than 100 is considered normal!) What is this level of glucose expressed as g/L?