Test:	Practice Questions - Online RA Session #01 - Chemistry				
Points:	20 points				
Name:			Score: _		
Date:					
Signature:					
	le choice answers with a cross or tick:				
Only select one answer					
Can select multiple answers					
		<b>~</b>	Test Created with: www.cl	assmark	er.com
Question <sup>2</sup>	1 of 8			T10	1 pt
What is the value of Avogadro's Constant?					
<b>A)</b> $2.066 \times 10^{22}$					
<b>B)</b> 2.062					
<b>C)</b> 6.022					
<b>D)</b> 6.022	$2 \times 10^{15}$				
Question 2 of 8			T10	3 pts	
Match each item to its definition.					
1.[ ] T	he mass of one mole in grams.	Α.	1 Mole		
	he weight of all elements in a substance ombined.	В.	Relative Atomic Mass		
3.[] 6	.022 × 10 <sup>23</sup> particles of a substance.	C.	Relative Formula Mass		
Question 3 of 8			T10	1 pt	
Calculate the number of water molecules in 0.5 mol of water.					
You can write 'times' as * OR x You can write 'to the power of' as ^					

Calculate the mass of 0.25 mol of carbon dioxide molecules.

$$M_r$$
 of  $CO_2 = 44$ 

## Question 5 of 8

T10

2 pts

The amount of carbon atoms in 6.0 g of carbon is 0.5 mol?

- (a) True
- B) False

## Question 6 of 8

T10

3 pts

In the reaction shown by the equation below, what mass of sulfur dioxide can be made from 16 g of sulfur?

Mr of 
$$SO_2 = 64$$

$$S(s) + O_2(g) \rightarrow SO_2(g)$$

## Question 7 of 8

T10

4 pts

12 g of magnesium reacts completely with excess hydrochloric acid to form magnesium chloride and hydrogen:

$$Mg(s) + 2HCI(aq) \rightarrow MgCI_2(aq) + H_2(g)$$

Calculate the maximum mass of hydrogen that can be produced.

$$A_r$$
 of Mg = 24,  $M_r$  of  $H_2$  = 2

Question 8 of 8 T10 4 pts

1.0 g of calcium carbonate decomposes to form calcium oxide and carbon dioxide:

$$CaCO_3(g) \to CaO(s) + CO_2(g)$$

Calculate the maximum mass of carbon dioxide that can be produced.

$$M_r$$
 of  $CaCO_3 = 100$ ,  $M_r$  of  $CO_2 = 44$ 

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