## Semester 1 Final Review Quiz: Units 1 and 2 (Accel)

1. What group of elements that form cations is the most reactive on the periodic table?

	a.	Alkali metals	c. Halogens		
	b.	Alkaline earth metals	d. Nobel gases		
2.	What element has the following noble gas configuration: [Kr]5s²4d8?				
	a.	Ag c. Pd			
	b.	Ni d. Cd			
3.	. Which group of elements does not have an electronegativity value?				
	a.	Alkali metals	c. Halogens		
	b.	Alkaline earth metals	d. Noble Gases		
4.	What el	ements are most abundant in the u	niverse?		
	a.	The most massive elements		c.	Elements that form anions
	b.	The least massive elements		d.	Elements that form cations
5.	. What results from the fusion of 3 helium nuclei?				
	a.	A carbon nuclei		c.	3 alpha particles
	b.	3 helium ions		d.	Not enough information
6.	What results from the alpha decay of uranium – 238?				
	a.	$^{238}_{93}Np$		c.	$^{242}_{95}Am$
	b.	<sup>234</sup> <sub>92</sub> U		d.	$^{234}_{90}Th$
7.	What subatomic particle determines the identity of an atom?				
	a.	protons		c.	electrons
	b.	neutrons		d.	quarks
8.	How many neutrons does nitrogen – 15 have?				
	a.	6 neutrons		c.	8 neutrons
		7 neutrons		d.	15 neutrons
9.	a. K b. K <sup>+</sup> c. Rb d. Rb <sup>+</sup>				
10.	. Elements in the same group on the periodic table typically share:				
	a.	The same chemical properties		c.	The same number of energy levels
	b.	The same number of electrons		d.	The same electron configuration
11.	Which o	of the following is a correctly writter	electron configuration?		
	a.	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>5</sup> 3s <sup>1</sup>		c.	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>4</sup>
	b.	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup> 4s <sup>2</sup> 4d <sup>10</sup> 5p <sup>2</sup>		d.	1s <sup>2</sup> 2s <sup>2</sup> 3p <sup>6</sup> 4
12.	How many valence electrons does selenium (Se) have?				
	_	4		c.	14
	b.			d.	50
13.	How many electrons can fit in a single orbital?				
	a.	1 b. 2 c. 3 d. 4			
14.	What type of charge would repel an alpha particle?				
	a.	Positive charge		c.	Neutral charge
	b.	Negative charge		d.	Impossible to tell
15.	5. Visible light arranged according wavelengths is called a				
	a.	Nebula			
	b.	Main sequence			
	С.	Spectrum			
	d.	Constellation			