Name:	Grade/Group:
Subject: Chemistry-7 Teacher: Mrs. Raj	
Date:	

Dire cket and

		Te	st 3: Lal	o Safety, N	Measure	ments, Matter and Periodic Table
ections: Determine the best answer for each question. Circle your answer on this test paced bubble your answer heavy and dark on the bubble sheet.						
1. The electron configuration of Calcium's (Ca) valence electrons is			's (Ca) valence electrons is			
	a.	1s <sup>2</sup>				c. 3s <sup>2</sup>
	b.	2s <sup>2</sup>				d. 4s <sup>2</sup>
2. The subatomic particle with a negative electric charge is the			e electric charge is the			
	a.	pro	ton			c. electron
	b.	neu	utron			d. nucleus
3.	Wh	nich	element	has the follo	owing elec	tron configuration: 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>1</sup>
	a.	Ν				c. B
	b.	F				d. C
4.	4. An atom of Ne contains 10 electrons. How many energy levels are needed to conta these electrons?			How many energy levels are needed to contain		
	a.	4				c. 2
	b.					d. 1
5.	5. The correct number of subatomic particles for $^{51}_{23}V$ is			ticles for <sup>51</sup> V is		
		Γ	Answer	Electrons	Protons	
			choices			
			a)	28	28	
			b)	22	22	

Answer	Electrons	Protons
choices		
a)	28	28
b)	22	22
c)	23	28
d)	23	23

a. Water

b. NaCl (aq)

6.	Which of the following is a compound?	
	<ul><li>a. Sea water</li><li>b. Calcium carbonate</li></ul>	c. Sugar water d. Calcium
7.	Which of the following is a mixture?	

c. H<sub>2</sub>

d. Sodium

8.	8. The correct electron configuration for Cl is					
	a.	$1s^12s^22p^63s^23p^3$	c. $1s^22s^22p^63s^23p^5$			
	b.	1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>4</sup>	d. 1s <sup>2</sup> 2s <sup>2</sup> 2p <sup>6</sup> 3s <sup>2</sup> 3p <sup>6</sup>			
9.	Ch	Choose the property from the list that is a chemical property.				
	a.	Miscibility	c. Volume			
	b.	Odor	d. Reactivity			
10.	Но	ow many significant figures are in the valu	ne, 2100 g?			
	a.	2	c. 4			
	b.	3	d. infinite			
11.	Th	e outer energy level of lithium contains				
	a.	1 electron	c. 3 electrons			
	b.	2 electrons	d. 4 electrons			
12.	Th	e atomic number of bromine is 35. How i	many electrons does neutral bromine have?			
	a.	35	c. 36			
	b.	79.9	d. 7			
13.	If t	he atomic number of a <u>neutral</u> element i	s 20; there are			
	a.	20 protons and 24 electrons	c. 23 protons and 23 electrons			
	b.	20 protons and 21 electrons	d. 20 protons and 20 electrons			
14.	Th	e Cs atom has				
	a.	55 protons and 56 electrons	c. 55 protons and 55 electrons			
	b.	56 protons and 55 electrons	d. 57 protons and 55 electrons			
15. Group 8A on the periodic table is also called the						
	a.	Halogens	c. Lanthanides			
	b.	Noble gases	d. Alkali metals			
16.	An	experiment is conducted to relate the le	vel of chemical reactivity between Na and			
	Ca. The two metals are combined with water and the level of reactivity analyzed. A result of this experiment the student correctly concluded:					
	a. Group 1A metals are more reactive than Group 2A					
	h	Group 2A metals are more reactive than	n Group 1A			

c. Group 1A and 2A have equal reactivity

d. Group 1A and 2A are completely unreactive

17.	7. Group 1A metals are called the alkali metals because					
	a. Th	They form acidic solutions when reacted with water				
	b. Th	ey form basic solutions when reacted	with water			
	c. Th	ey form neutral solutions when reacte	ed with water			
	d. Th	ey are unreactive with water				
12	The ni	ımber of core electrons in sodium (Na	al are			
10.	a. 2	amber of core electrons in sociam (we	c. 8			
	b. 6		d. 10			
	<b>D. O</b>		u. 10			
19.	The nu	he number of core electrons in potassium (K) is				
	a. 20		c. 10			
	b. 18		d. 8			
20	Which	substance would have a definite volu	ume and a definite shane?			
20.		ygen gas	c. Iron metal			
		juid water	d. none of these			
	D. LIG	ara water	a. Hone of these			
21.	When	elements form mixtures, the element	ts			
		a. Keep their original properties				
		React to form new substances with i	new properties			
		Combine in a specific mass ratio Always change their physical state				
	u.	Always change their physical state				
22.		can be separated by physic	al means.			
		Atoms	c. Elements			
	b.	Compounds	d. Mixtures			
23.	23. Which of the following is the chemical property of iodine?					
	a.	lodine is a purple solid				
	b.	lodine reacts with sodium metal to	form sodium iodide			
	C.	The density of iodine is 4.93 g/cm <sup>3</sup>				
	d.	Iodine does not conduct electricity				
24.	Colum	ns on the periodic table are called:				
	a.	Periods	c. Groups			
	b.	Rows	d. Energies			
25.	Group	7A on the periodic table is more com	monly called			
	a.	Alkali Metals	c. Halogens			
	b.	Alkaline Earth Metals	d. Transition Metals			

26. K, Ca, and Se appear in period number				
a. 3	c. 5			
b. 4	d. 6			
27. B, Al, and Ga appear in group				
a. 1A	c. 7A			
b. 3A	d. 5A			
b. 3A	u. SA			
28. The atomic number of neutral Gallium is 31	. Gallium has			
a. 30 protons	c. 32 protons			
b. 31 protons	d. 33 protons			
29. A characteristic of a metal is				
a. Shiny appearance	c. Poor conductor of heat or electricity			
b. Gas at room temperature	d. Not malleable			
·				
30. The elements on the modern periodic table	are arranged according to			
a. Color	c. Atomic mass			
b. Shape	d. Atomic number			
31. Atoms of which elements would have the sa	ame number of valence electrons?			
a. Elements of the same color	c. Elements in the same group			
b. Elements in the same period	• .			
32. Which element is in the same group as Bery	yllium (Be)?			
a. Carbon	c. Phosphorus			
b. Strontium	d. Sodium			
33. Elements in the "B" groups are called				
a. Lanthanides	c. Transition metals			
b. Alkaline earth metals	d. Halogens			
	S .			
34. Properties of which two elements would be	e the most similar?			
a. H and He	c. K and Kr			
b. O and P	d. Mg and Ba			
35. O, N, S, and P are				
a. Nonmetals	c. Metalloids			
b. Metals	d. None of the above			

36. K, Cu, Ca,	and Zn are			
a. N	onmetals	c. Metalloids		
b. M	letals	d. None of the above		
37. Which of the following elements have 8 valence electrons?				
a. Fr		c. Ar		
b. Fe		d. Br		

- 38. Li, Be, B, and C are in the same
  - a. Periodb. Groupc. Metal categoryd. None of the above
- 39. A property of Bromine is
  - a. Unreactiveb. Shinyc. Ductiled. 7 valence electrons
- 40. A property of the Noble gases is
  - a. Unstable
  - b. Produces color when introduced to electric current
  - c. Solid at room temperature
  - d. Easily ionizes