D	Ob		Name	
•	Chemistry Table Practice	Test A	Name	Period
	elements contai		colored ions and	have more than one
a)	alkali metals alkaline earth m		c) transition ele d) noble gases	ements
	n elements have t K and Na	the <i>most</i> similar che b) K and Ca	emical propertie c) K and Cl	s? d) K and S
	n element in Perio Ar	od 3 has the <i>greate.</i> b) Cl	st tendency to g c) Si	gain electrons? d) Na
4) How n a)	•	e in Period 3 of the b) 1	Periodic Table? c)4	d) 2
	n of the following sodium	g elements has the / b) aluminum	_	_,
	lement with the chlorine	<i>highest</i> electronega b) bromine	tivity is c) fluorine	d) iodine
a)	e modern Periodio atomic mass atomic number	c Table, the elemen	c) mass r	_
8) An ato		contains 20 proton	s, 20 neutrons,	and 20 electrons. The
•	an alkali metal a noble gas		c) an alkaline ed d) a halogen	arth metal
a) b) c)	nonmetal with a metal with a hig metal with a low	th a high ionization of high electronegativ h electronegativity electronegativity low electronegativi	ity	ost likely be a
	e move down the increases	elements in Group 1 b) decreases		egativity of the elements remains the same

11) What element is in Group 2 and Period 7 of the Periodic Table?

a) magnesium

b) radon

c) manganese

d) radium

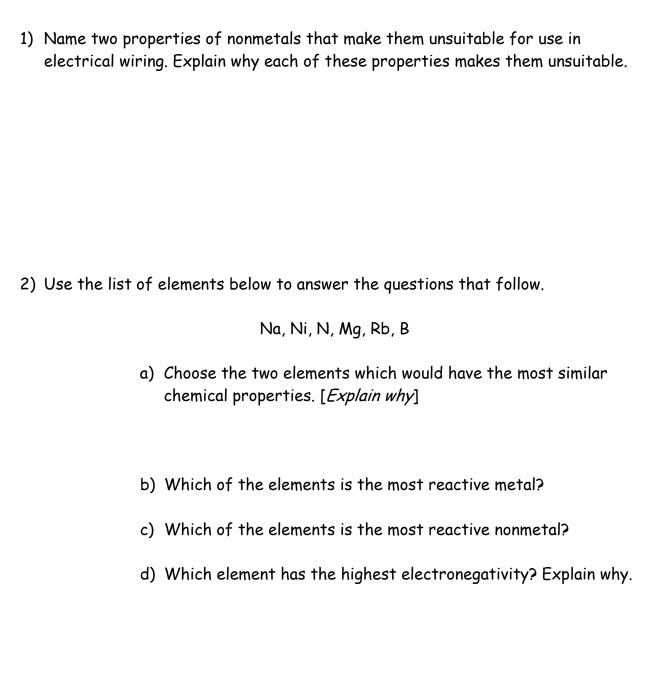
	a) 1, 2, and 14	b) 1, 2, and 18	c) 1, i	2, and 17	d) 2, 13, and	d 17
	-	•		a result of th c) a larger r		atom having e
14) A	_	ements tend to and form positive ion and form negative io				m positive ions m negative ions
15) W	/hich element is cor a) sulfur	nsidered a <i>malleable</i> b) radon		ance? drogen	d) gold	
	s we consider the e ecrease in a) ionization energ b) metallic charac	, ,	c) no	left to right, nmetallic chai ectronegativit	racter	eneral
17) W	/hich period contair a) 1	ns the <i>greatest</i> num b) 2	ber of c) 3	metals?	d) 4	
 18) As we move down Group 1 elements of the Periodic Table, the first ionization energy of each element decreases. One reason for this is that a) the nuclear charge is decreasing b) the number of principal energy levels is decreasing c) the distance between the valence electron and the nucleus is increasing d) the number of neutrons is increasing 						
19) W	/hich is the <i>most</i> ac a) I	ctive metal in the Pe b) Fr	riodic c) Cl	Table of Eler	ments? d) F	
20) T	he properties of bo a) a metal only b) a nonmetal only	oron are characteris	c)	both a metal neither a me		
21) W	/hich compound con a) CaS	tains an alkaline ear b) Rb₂S	th me	tal and a halo c) RbCl	gen?	d) CaCl ₂

12) Alkali metals, alkaline earth metals, and halogens are found respectively in Groups

a) are close to having b) have 1 to 2 valence	a full octet c) electrons d)	able because most of the elements) have a high ionization energy) have a high electronegativity table, the reactivity of metals
a) increases	b) decreases	c) stays the same
24) As we move from left to a) increases	right on the periodic b) decreases	table, the reactivity of nonmetals c) stays the same
•		vity, high reactivity ivity, high reactivity

d) high ionization energy, low electronegativity, low reactivity

Short Answer



) A neutral atom in the ground state has the electron configuration 2-8-18-7.			
a) State the group and period this element is found on the Periodic Table.			
b) Identify this element.			
c) Classify this element as a metal, nonmetal, or metalloid.			
d) In the box below, draw a Lewis electron-dot structure for this element.			
e) List <i>two</i> other elements likely to have properties similar to this element.			
Bonus (1 pt.)			
) The radius of a calcium ion is <i>smaller</i> than the radius of a calcium atom because the calcium ion contains the same nuclear charge and			
a) fewer electrons c) more protons			
b) fewer protons d) more electrons			

Mr. Dolgos	Periodic Table Practice Test (A) NamePeriod _
1 2 3	Name two properties of nonmetals that make them unsuitable for use in electrical wiring. Explain why each of these properties makes them unsuitable.
4	
5 6	
7	
3	2. Use the list of elements below to answer the questions that follow.
9	Na, Ni, N, Mg, Rb, B
1	a) Choose the two elements which would have the most similar chemical properties. [Explain why]

b) Which of the elements is the most reactive metal?

c) Which of the elements is the most reactive nonmetal?

b) Identify this element:

d) Which element has the highest electronegativity? Explain why.

2) A neutral atom in the ground state has the electron configuration 2-8-18-7.

a) State the group and period this element is found on the Periodic Table:

c) Classify this element as a metal, nonmetal, or metalloid (circle one).

d) In the box below, draw a Lewis electron-dot structure for this element.

e) List two other elements likely to have properties similar to this element.

14. ____

15. ____

16. ____

17. ____

18. ____

19. ____

20. ____

21. ____

22. ____

23. _____

24. ____

25. ____

Mr. Dolgos	1 61 104
1. <u>c</u> 2. <u>A</u>	Name two properties of nonmetals that make them unsuitable for use in electrical wiring. Explain why each of these properties makes them unsuitable.
3. B	. Not ductile ⇒ can't be drawn into wire
4. <u>B</u>	· Not malleable => can't bend
5. <u>P</u>	· Nonconductors => ran't transmit electricity
6. <u>C</u>	Noviconsocios Parie distribuiros
7. B	
8. <u>C</u>	
9. ~	2. Use the list of elements below to answer the questions that follow.
10. <u>B</u>	Na, Ni, N, Mg, Rb, B a) Choose the two elements which would have the most similar chemical
11. D	properties. [Explain why]
12. <u>C</u>	Na Rb b/c same group /family
13. <u>C</u>	
14. <u>C</u>	b) Which of the elements is the most reactive metal?
15. D	26
16. <u>B</u>	c) Which of the elements is the most reactive nonmetal?
17. <u>0</u>	N
18. <u>C</u>	d) Which element has the highest electronegativity? Explain why.
19. <u>B</u>	N b/c it's closest to a full octet
20. <u>C</u>	
21. <u>D</u>	2) A neutral atom in the ground state has the electron configuration 2-8-18-7.
22. <u>B</u>	a) State the group and period this element is found on the Periodic Table:
23. <u>6</u>	Group 17 Period 4
24. <u>A</u>	b) Identify this element: Bromine (Br)
25. <u>D</u>	c) Classify this element as a metal (nonmetal), or metalloid (circle one).
	d) In the box below, draw a Lewis electron-dot structure for this element.
Bonus: a.)	» Brx

e) List two other elements likely to have properties similar to this element.

F, CI, I