Chapter 5 Quiz Review

Rea	d the following questions ar	nd choose the be	est answer. Rec	cord your answe	r on the answer she	eet – do not write on the
1.	Elements in the Periodic Ta (1) atomic mass (2) atomic num	S	d according to t (3) relative a (4) relative si	ctivity		
2.	Which element has a total of	of 5 valence elec (2) Bi	ctrons in the fif	th energy level? (4) Br		
3.	The elements in Period 3 al (1) protons (2) neutrons (3) energy leve (4) valence ele	els (rings)	me number of			
4.	How many electrons are in (1) 2	the valence she (2) 3	ell of an atom o	f carbon in the g (4) 6	round state?	
5.	Which statement best describes Group 2 elements as they are considered in order from top to bottom of the Periodic Table? (1) The number of energy levels increases, and the number of valence electrons increases. (2) The number of energy levels increases, and the number of valence electrons remains the same. (3) The number of energy levels remains the same, and the number of valence electrons increases. (4) The number of energy levels remains the same, and the number of valence electrons decreases.					increases. remains the same. electrons increases.
6.	(2) Each succe (3) All elemen	essive element l essive element l nts have similar	has a greater ato has a lower elec chemical prope	ctronegativity.	l energy level.	
7.	Which of the following is a (1) Mg	a metal that is a (2) Br	lso a liquid?	(4) Al		
8.	Which of the following is (1) N	the only membe (2) Na	er of Group IA ((3) Cs	that is a gas?		
9.	The majority of elements (1) solids (2) gases		ietalloids	as:		
10	(2) they cond	a characteristic uct heat and electricated Non-IMA	ctricity only at	e Î high temperature	es Semi metal	S
11	(2) lose electr	rons and become rons and become rons and become	e positive ions			

(4) gain electrons and become negative ions

12.	Which gro	up contains a me	talloid (semimet	(al)2	
	-	(1) IA	(2) IIA	(3)IIIA	(4) VIIIA
13.	Which eler	ment exhibits bot (1) Bi	th characteristics (2) Ag	of both metals a	and nonmetals? (4) He
14.	Which pro	(2) They lose (3) They have	ristic of nonmeta a high electrone electrons easily. a low first ioniza ood conductors o	gativity. ation energy.	
15.	Which eler	ment reacts vigor (1) Zn	rously with wate (2) Li	r? (3) Cu	(4) Fe
16.	An alkali n	netal would mos (1) another alk (2) an alkaline (3) a halogen (4) a noble gas	cali metal e earth metal	ith:	
17.	Which of the	he following is the (1) 10	ne atomic numbe (2) 12	er of an alkaline e (3) 14	earth metal? (4) 17
18.	An alkalin	e earth metal is (1) less reactiv (2) more react (3) has the san		an alkali metal?	
19.	Atoms that	t may have sever (1) halogens (2) the alkali m		e states belong to (3) noble gases (4) the transitio	
20.	Plutonium	belongs to which (1) alkali meta (2) transition n	ls	(3) inner transit (4) alkaline ear	
21.	The element	nts in group 7A a (1) halogens (2) alkali meta		(3) noble gases (4) alkaline eart	th metals
22.	The elemen	nts in group 7A t	cypically form io (2) 2-	ns with that charg (3) 2+	ge? (4) 1+
23.	Which gro	up of elements sa (1) the halogen (2) the alkali m	S	t rule" without fo (3) the noble ga (4) the transition	ses
24.	Which of t	hese elements ha (1) Na	as an atom with the (2) Ca	he most stable ou (3) Cl	iter electron configuration? 4 Ne
25.	How many	electrons are in (1) 2	the outermost en	nergy level of an o	oxygen atom? (4) 8

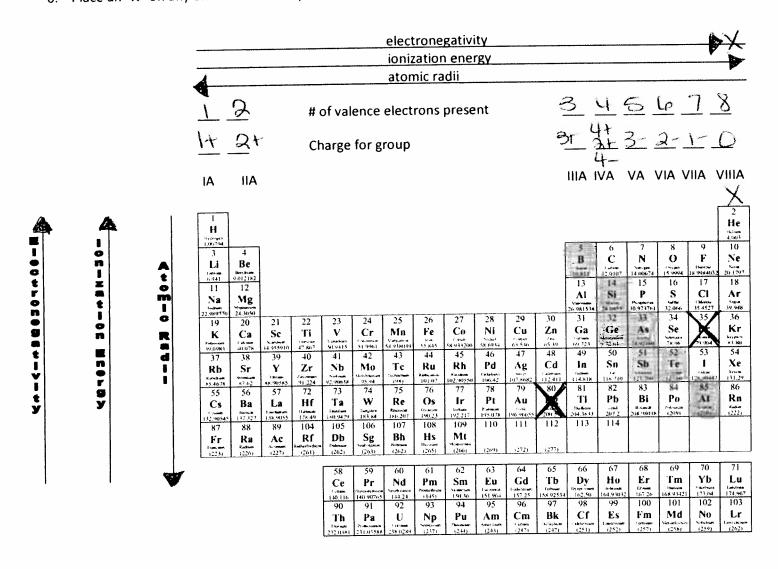
26. V	What is the	total num	ber of electrons (2) 3	found in the va (3) 4	lence shell of a (4) 7	n alkaline earth metal?	
	-	(1) a sma (2) a larg (3) the s	aller atomic rad ger atomic radii ame atomic rad	ii			
28.	As the elemincreases.	This incre (1) mass (2) atom (3) the r	ase is primarily number nic number number of proto	sidered from top due to an increa ns occupying the oried energy leve	ase in: e nucleus	atomic radius of each succes	sive element
29.	Which of the	he followi (1)alumi (2) magi	num	increases wher (3) chlorine (4) sodium	n it forms an ior	n?	
30.	Which ion (1) Na		nallest radius? (2) Mg ⁺²	(3) Al +3	(4) Cl ⁻¹		
31.	When an a	(1) a ca (2) a ca (3) an a	outer electrons, tion with a negation with a posinion with a neganion with a pos	tive charge tive charge ative charge			
32.	Which of to (1) need		ing forms an an (2) calc		(3) oxygen	(4) Argon	
33.	(1) fir		on energy	(3) act	loosely bound divation energy extronegativity	electron from an atom is the:	
34.	(1) in:	reactive g ner transit logens	roup of nonmetation elements	(3) tra	nsition element caline earth elen		
35.	An elemen		operties similar (2) Fe	to chlorine wou (3) P	ld be: (4)S		
36	(1) lo (2) lo (3) hi	ow ionizat ow ionizat igh ioniza	ion energy and l tion energy and	in nonmetals? ow electronegat nigh electronegat low electronegat high electronegat	itivity itivity		
37	. Which ha		the highest ioni (2) F	zation energy? (3) I	(4) Cl		
38	. The atom		group have the	lowest ionization (3) VI A	on energy? (4)VIIA		

39. Which of the follow (1) atomic radii	ring follow the	same trend as ic	onization energy?			
(2) atomic numl		(3) ionic radii (4) electroneg				
40. The power of an ato	m to attract ele	ectrons to itself	when forming a co	ovalent bond is c	alled:	
(2) ionization er	•	(3) electron at(4) an isotope				
41. Which element has t	the greater elec					
(2) aluminum		(3) oxygen (4) cobalt				
42. Compared to atoms (1) have higher	electronegativi	ities	generally:			
(2) have lower f(3) conduct election	tricity more re	adily				
(4) lose electron	·					
43. Which of the follow (1) boron	ing atoms has t ② fluorine	the strongest attr (3) zinc	raction for electron (4) sulfur	ns?		
44. Which of the noble g	gases has the hi	ighest first ioniza	ation energy?			
	(2) krypton	(3) neon	(4) helium			
45. According to the per (1) He, Cs, Si, M (2) Cs, Mg, Si, I (3) Si, He, Cs, M (4) Si, Mg, Cs, I	le Ig	ich of the follow	ving series of elen	nents is ordered b	by decreasing elec	tronegativity?
46. Who developed the f (1) Mendeleev (2) Mosely	irst periodic tal (3) Ran (4) Rut	nsey				
47. How many energy lev						
(1) 2	2) 3	(3) 4	(4) 5			
48. Which group contains (1) IIA (s metals, metal 2) IIB	lloids, and nonm (3) IVA	etals? (4) IVB			
49. Mosely's work led to elements were arrang (1) Atomic Prope (2) Modern Perio (3) Extensive Pro (4) Mendeleev's	erties odic Law operties	that elements we atomic size. The	vith similar proper his is referred to a	ties occurred at ress:	egular intervals w	hen the
50. Which element attains (1) K (2)	s the structure o	of a noble gas wh (3) F	hen it becomes a 1 (4) Ne	l+ ion?		

Name:	Block:	Date:	
Chapter 5			

Record on the periodic table below the following:

- 1. Place <u>arrows</u> on the ends of the trends to indicate the larger/higher area. (1 pt each/ total 6 pts)
- 2. Place an "X" on the line over any group that does not exhibit a given trend. (1 pt)
- 3. Indicate the number of valence electrons for each group a on the line given. (0.5 pts each/ total 4 pts)
- 4. Indicate the charge for each group A on the line given. (0.5 pts each/ total 4 pts)
- 5. Shade in the semi metals. (1 pt)
- Place an "X" on any element that is liquid at room temperature. (1 pt/ total 2)



Record your answers to the multiply choice questions below. (1 pt each)

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