Ch. G11-Q2W2- H.W.-Periodic properties of elements

Multiple Choice

<i>Identify</i> i	the	choice	that	best	comp	oletes	the	statement	or	answers	the	question.

 1.	Transition elements, such as chromium, are lil	kely 1	to have
	a. multiple oxidation numbers	c.	an oxidation number of 2+
	b. an oxidation number of 1+	d.	a negative oxidation number
2.	Group 13 elements tend to form		
	a. covalent compounds	c.	alloys
	b. ionic compounds		metalloids
3.	Compared to the neutral atom from which it is	deri	ved. a negative ion is
	a. always larger		
	b. larger in some cases and smaller in others		
	c. always smaller		
	d. the same size		
 4.	The most important alloy of zinc contains cop	per a	nd is called
	a. steel		slag
	b. brass	d.	zinc oxide
 5.	The most important use of lead is in		
	a. paint pigment	c.	batteries
	b. pewter	d.	solder
 6.	At what sublevel does the final electron enter	a trai	nsition metal?
	a. d sublevel	c.	p sublevel
	b. f sublevel	d.	s sublevel
 7.	Transition metals have multiple oxidation stat	es be	cause of the involvement of the electrons in
	chemical bonding.		
	a. <i>d</i>	c.	
	b. <i>f</i>	d.	S
 8.	Which of the following elements is not in the	iron 1	triad?
	a. cobalt		copper
	b. iron	d.	nickel
 9.	A metallic ion is its corresponding ator	n.	
	a. larger than		smaller than
	b. the same size as	d.	impossible to compare with
 10.	Each row in the periodic table ends with a	·	
	a. noble gas		nonmetal
	b. metalloid	d.	metal
 11.	What is the trend in the melting point of d-blo	ck el	ements across a period?
	a. The melting point increases from left to ri	ght.	
	b. The melting point first increases and then	decr	eases from left to right.
	c. The melting point remains the same.		
	d. The melting point decreases from left to r	ight.	
 12.	Active metals are in the region of the p	eriod	ic table.
	a. <i>d</i>	c.	
	b. <i>s</i>	d.	n

 13.	The valence configuration shared by carbon, silicon	n, and germanium is
	a. $2s^22p^6$ c.	$1s^2 2s^2 2p^2$
	b. s^2p^2 d.	s^2p^4
14.	What ions present in hard water interfere with the a	action of soaps and detergents, making it difficult to wash
	grease and oil from utensils and clothes?	
		Sodium
	b. Potassium d.	Hydrogen
 15.	The inner transition elements are found in the	_ block of the periodic table.
	a. s	d
	b. <i>p</i> d.	f
 16.	When compared to the main group metals, transition	on metals have melting and boiling points that are
	a. about the same c.	always lower
	b. usually lower d.	usually higher
 17.	Which of the following is an alkaline earth metal?	
	a. Sodium c.	Iron
	b. Beryllium d.	Potassium
 18.	In general, main group elements have meltir	ng points and boiling points when compared with transition
	metals.	
	a. the same c.	much lower
	b. higher d.	slightly lower
 19.	The atoms of an element in Group 2 are ator	ns of a Group 13 element in the same period.
		impossible to compare with
	b. larger than d.	smaller than
 20.	Plants need the alkaline earth element in pho	otosynthesis.
	a. barium c.	magnesium
	b. calcium d.	Strontium
