Name	nerries.	DatePeriod
	Review: Periodic	icity and Bonding Exam
	C. Pol Imbariano I (a	
1) Summarize th	e modern periodic law.	and the Garage
propert of to	ies of elements	are a periodic function
2) In the periodic		
a) Vertical colun		b) Horizontal rows are called: periods
3) What is a met	alloid? properties e	of metal and hon-metal
4) What side of t	the periodic table contains	
a) Metals?	ef+	b) Nonmetals? Right
5) State what fan	nily is contained in each location	1.
a) IA AIKai	b) IIA FORM	c) VIIA Halogens d) VIIIA Mobic
6) What is the m	ost important factor in determini	ing
a) atomic radius	r energy level	b) properties of an element? # of watercz
7) What happens	s to atomic radius as you go	
a) across a period	d from left to right? decreas	b) down a column? in creases
8) State the loca	ation of the most reactive	
a) metals. Be	ottom Left Com	b) non-metals. top right corner our desires.
9) As far as their	electrons go, state what each gro	oup desires.
a) Alkali metals	Losel	
b) Halogens	Gain I	23) In the molecule. He, each along of brouder has an

Keep what they have c) Noble Gases

11) Define each of the following in terms of charge.

a) ion hon-neutral b) anion htgatise c) cation

12) What is the difference between a covalent bond and an ionic bond?

13) What is the difference between ionization energy and electronegativity?

a) Linear 185°	b) Trigonal Planar	1.200	c) Tetrahedral	109.5	
15) Tetrahedral geometric clouds in the modified t	tetrahedral geometries				
a) Trigonal	Pyramidal	- 3	Sibole	bones, 1	lone p
b) Bent -	2 single	bono	15, 2	lone pai	So Isome V LE
c) Linear -	. I Single	bo	4,3	lone pain	is a milw (t)
16) When comparing be characteristics?					
1 ~~	e greatest	61.77	a cace	n Electro	regeri
	The great			cherecter. St	Supplied to
17) Describe the relatio	nship between symme	etry and po	asam	mety 7	polar
18) If an element is a m		sible numb	pers of valence e	lectrons that it could	i contain?
1, 2	, or 3				
19) Describe the differe	nce between polar and	d non-pola	ır.		
unzque	1 - 4 5 of c	4	equal "	Shering of	e
20) State the number of	unpaired electrons in	the atoms	in each group.		
a) VIIIA O	b) VIIA c) V	IA 2	d) VA 3		
21) Circle the molecule	s in which multiple co	valent bo	nding occurs.		
	_				
a) Br ₂ Br-Br	(B) N_2 $: P \equiv r$	5: (C) P2	:PEP:	d) I_2 \mathcal{I} –	I dated to
22) Which of the follow	ving has the largest rac	dius?			
	Shrink			d) Te-2	
a) Ag	b) Ag ⁺²	c) Te		(d) Γe^{-2}	
23) In the molecule, Br			outer energy lev	el with the electron	configuration
of the gasK_	Knj	pton			
24) Describe the location	on of the element with	the follow	ving electron con	figuration:	
$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3$				Column VIIA	
	4				
25) An element has the	electron configuration	n: [Ar]4s	² 3d ¹⁰ 4p ⁵ . Whi	ch description best	describes the
1		ع د است			
a) stable metal	b) stable non-metal		c) unstable me	tal d)unst	able non-metal
26) An aluminum atom Write the formula for al	luminum iodide.				
AIST	cerronegativity	AIT	S in Houseing inc		
		2			

14) State the bond angle for each of the following geometries.

Complete the table for the following.

#	Formula	Lewis Dot Structure	Structural Formula	Geometry	Polarity
28	LiOBr	Licospri	Li O'S	Bent	Polar
29	GaH₃ ₃ ı	H OGOCH	V, Ga H & H	Trigonal	Non- Polar
30	SiH ₂ Cl ₂ 4 1 7	: ¢iesie;	H Si Si Si CI	Tetra- hedral	Polar
31	GeH ₂ O ₄ 1 6	H.Gesp:	Y GE H	Trigonal	Polar

complete the rable for the following

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