Nam	ne				Hono Bono	ors Cl	nemis and L	try Pı Lewis	Per ractic Struc	e Test	 t					
	follow	ing is	a tabl	le of F		Ū								Fo	orm P	
2.1 H																
H 1.0	1.5	]										2.0	2.5	3.0	3.5	4.0
Li 0.9	Be 1.2	ł										B 1.5	1.8	N 2.1	O 2.5	F 3.0
Na 0.8	Mg								_			Al	Si	P	S	Cl
0.8 V	1.0	1.3	1.5 Ti	1.6 V	1.6 Cr	1.5	1.8	1.8	1.8 Ni	1.9	1.6 Zn	1.6	1.8	2.0	2.4	2.8
0.8	Ca 1.0	Sc 1.2	1.4	1.6	1.8	Mn 1.9	Fe 2.2	Co 2.2	2.2	Cu 1.9	1.7	Ga 1.7	Ge 1.8	As 1.9	Se 2.1	Br 2.5
Rb	Sr	Y	Zr	Nb	Mo	Тс	Ru	Rh	Pd	Ag	Cd	Ιn	Sn	Sb	Те	I
0.7 Cs	0.9 Ba		1.3 Hf	1.5 Ta	1.7 W	1.9 Re	2.2 Os	2.2 I r	2.2 Pt	2.4 Au	1.9 Hg	1.8 Tl	1.8 Pb	1.9 Bi	2.0 Po	2.2 At
Cs 0.7	0.9		111	ĮΙα	1 ' '	INC	w	11	110	714	1118	111	110	DI	10	710
	: <b>I:</b> Fil			owing onegati				are to	show	•	work.	f Bond	d			
a. H	C1	-								_						
b. Ba	aCl <sub>2</sub>	-														
c. N	$O_2$	_								_						
d. O	2	_														
e. C	$O_2$	_								_						
PAR	RT II:	Tell t	he typ	e of in	termo	olecula	r forc	es tha	t occu	r betw	een th	ne foll	owing	mole	cules.	
a. Br <sub>2</sub>				f. He												
b. H <sub>2</sub> O			g. HF													
c. HF					h. N <sub>2</sub>											

Part III: Questions

d. CH<sub>4</sub>

e. NF<sub>3</sub>

1. Describe how sodium chloride exists as a matrix rather then a single molecule?

i.  $CH_2Cl_2$ 

j. HCl

2. Describe the molecular structure of water in the solid phase.

3. What is a d	covalent bond?		Forn
4. What is an	ionic bond?		
5. Describe the	he physical differences be	tween ionic and covale	ent compounds.
PART IV: D	Oraw Lewis structures for	the following molecule	es:
Cl <sub>2</sub>		BeH <sub>2</sub>	
NH <sub>4</sub> +		$O_2$	
CH <sub>4</sub>			
·			
Part V: Dray molecules:	w Lewis structures and inc	dicate the type and shap	pe for each of the following
H <sub>2</sub> S		$CO_2$	
CF <sub>2</sub> I <sub>2</sub>		BF <sub>3</sub>	
SCl <sub>6</sub>			