Dougherty Valley HS Chemistry Bonding and Structure – Mixed Practice

Name:

Period:

Seat#:

Worksheet #8 :

Answer the following questions:							
1) Whex	hat are the common ceptions to the octet rule?	2)	Which compound has the most (Think about what periodic tren in the first place.) LiCl v	ioni nd ca s.	c character? Explain why. auses a compound to be ionic LiF		
3) Wh for sin diff	hat kind of bond is likely to rm if the atoms have very nilar electronegativity ferences?	4)	What type of bond is formed when electrons are delocalized and move throughout the substance?	5)	What is the formula for Mercury (I) Chloride?		
6) If a has diff	an unknown compound XY s an electronegativity ference of 1.0, what type bond is it?	7)	Using the information in Question #6 and the information below, what must the unknown compound XY be? $N = 3.0; O = 3.4$ C = 2.5; CI = 3.2; H = 2.2	8)	Do atoms form bonds because they are moving towards higher or lower potential energy?		

Provide the information asked for:

	Sodium Oxide	2)	Iodine gas
-	Type of bond:	-	Type of bond:
	Formula:		Formula:
	Lewis Structure:		Lewis Structure:
3)	Hydrogen cyanide	4)	Iodine trifluoride
	Type of bond:	,	Type of hond:
	//		
	Formula:		Formula:
	Formula: Lewis Structure:		Formula: Lewis Structure:
	Formula: Lewis Structure:		Formula: Lewis Structure:
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5)	NH4 ⁺	6)	PCI5
	Type of bond:		Type of bond:
	Namai		Nama
	Lewis Structure:		Lewis Structure:
7)	C ₂ H ₂	8)	XeF ₄
	Type of bond:		Type of bond:
	Name		Nama
	Name:		Name:
	Lewis Structure:		Lewis Structure:
0)		10	
9)		10	
	Type of bond:		Type of bond:
	Name: Dimethyl ether		Name: Acetone
	Lowic Structure:		Lowic Structure
	Lewis Structure.		Lewis Structure.
14		10	
		12	
	Type of bond:		Type of bond:
1	Name:		Name: Methyl chloride
	Lewis Structure:		Lewis Structure:
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