Unit	2 –	Chapt	ers 8	,9
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Assignment #1

Period _____

- 1) Which compound in each of the following pairs of ionic substances has the most exothermic lattice energy? Justify your answers.
 - a. LiF, CsF
 - b. NaBr, NaI
 - c. BaCl₂, BaO
 - d. Na₂SO₄, CaSO₄
 - e. KF, K₂O
 - f. Li₂O, Na₂S
- 2) Write the Lewis structures that obey the octet rule for each of the following.
 - a. HCN
- d. NH4⁺
- g. CO₂

- b. PH₃
- e. H₂CO
- h. O₂

- c. CHCl₃
- f. SeF₂
- i. HBr

- 3) Write Lewis structures and predict whether each of the following is polar or nonpolar.
 - a. HOCN (exists as HO-CN)
 - b. COS
 - c. XeF₂
 - d. CF₂Cl₂
 - e. SeF₆
 - f. H_2CO (C is the central atom)

^{*}Except for HCN and H₂CO, the first atom listed is the central atom. For HCN and H₂CO₃, carbon is the central atom.