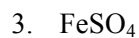


Unit 4 Practice Quiz

Part I: Write the correct names of the followings:



Part II: Write the correct chemical formula for the following:

5. sodium carbonate

6. dinitrogen monoxide

7. biphosphate

8. magnesium chloride

9. stannous hydrogen sulfate

10. zinc hydroxide

Part III: Lewis structures:

Molecule	Lewis Structure	Molecule	Lewis Structure
11. SO_3^{2-}		13. C_2Br_2	
12. FCN		14. PO_3^-	

15. List which of the above compounds, if any, would have resonance structures:

16. Which of the above compounds have the following:

a. exactly 2 sigma bonds _____

b. exactly 2 pi bonds _____

17. Calculate the bond energy associated with CO_2 .

Bond Dissociation Energies at 298 K			
Bond	kJ/mol	Bond	kJ/mol
Cl—Cl	242	$\text{N}\equiv\text{N}$	945
C—C	345	O—H	467
C—H	416	C—O	358
C—N	305	C=O	745
H—I	299	O=O	498
H—N	391		