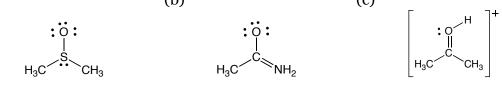
CHM 235R

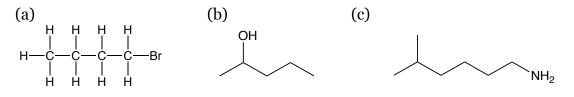
Spring 2013

Recitation Week 11/16/13 Problems. You may work on these individually or in groups, and then I will go over them.						
1. How many valence electrons do the following elements have?						
(a) L	i (b) C	(c) F	(d) Al	(e) N		
2. Draw Lewis structures for the following molecules:						
(a)	CO ₂	(b)	N_2		(c)	Cl_2
(d)	HNO_3	(e)	$ m NH_3$		(f)	CH ₃ F
(g)	H_2SO_3	(h)	C_2H_4		(i)	N_2H_4

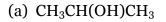
3. Label all the atoms (besides H) in these molecules with their formal charge:
(a) (b) (c)



4. Write condensed structures for the following molecules:



5. Convert these condensed formulas to (a) dash and (b) bond-line structures.



(b) (CH₃)₃COH

(c) CH₃CHO