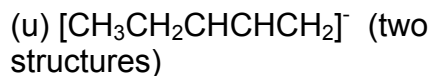
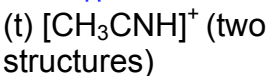
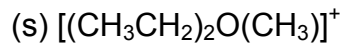
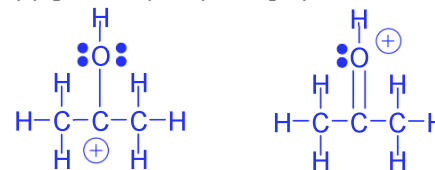
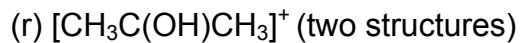
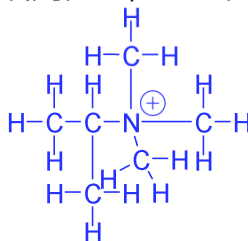
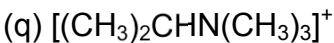
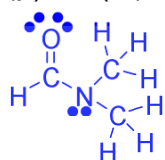
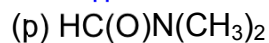
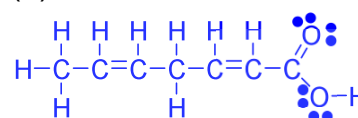
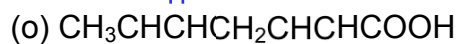
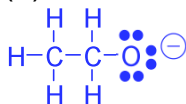
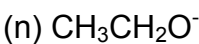
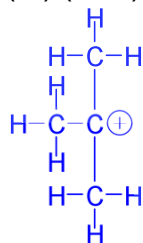
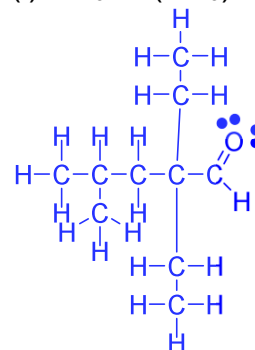
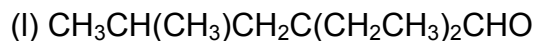
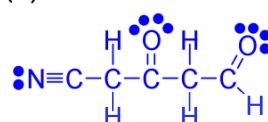
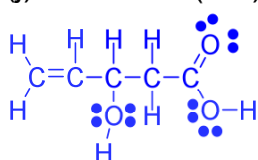
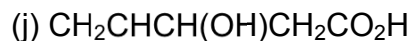
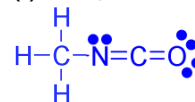
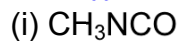
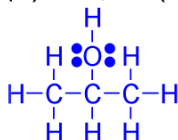
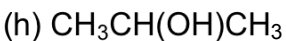
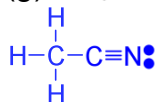
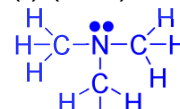
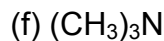
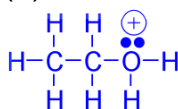
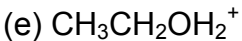
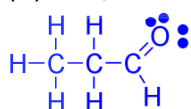
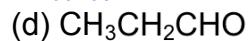
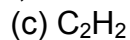
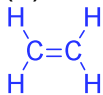
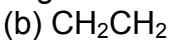
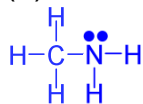
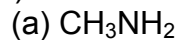
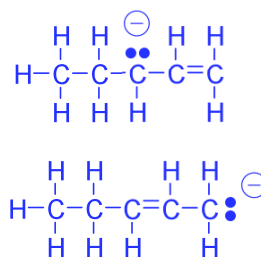
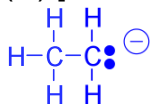
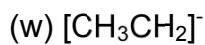
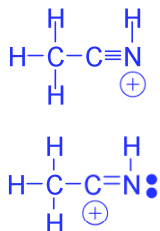
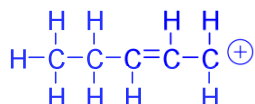
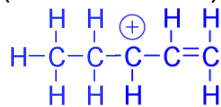
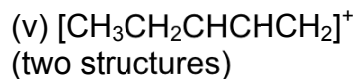
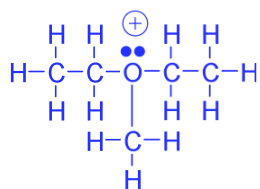


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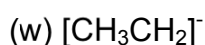
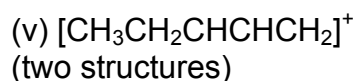
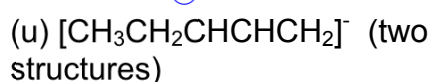
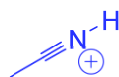
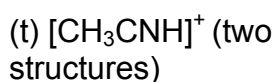
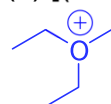
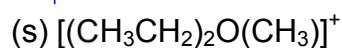
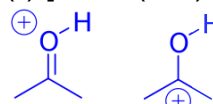
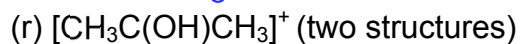
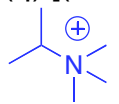
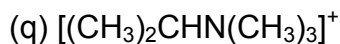
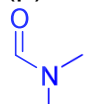
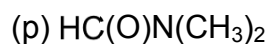
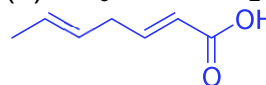
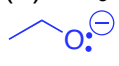
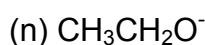
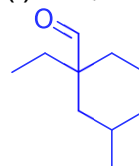
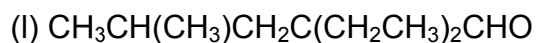
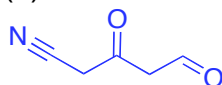
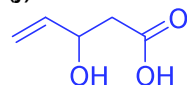
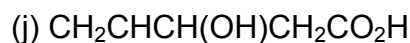
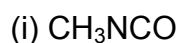
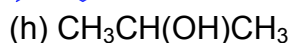
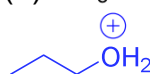
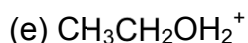
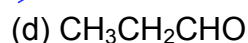
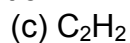
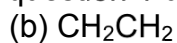
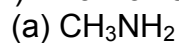
Assignment 1 Answers

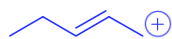
1) Draw Lewis structures, showing all unshared electrons, for the following covalent molecules:





2) Draw all of the structures in question 1 using line notation.





- 3) There is a small portion of the periodic table that you must know to do organic chemistry. Construct this from memory including the group numbers, numbers of valence electrons, and electronegativities.

I					
H ¹ ₁					
	III	IV	V	VI	VIII
	B ³ ₃	C ⁴ ₄	N ⁵ ₃	O ⁶ ₂	F ⁷ ₁
		Si ⁴	P ⁵	S ⁶	Cl ⁷
					Br ⁷
					I ⁷

valence electrons in blue
bonds in red

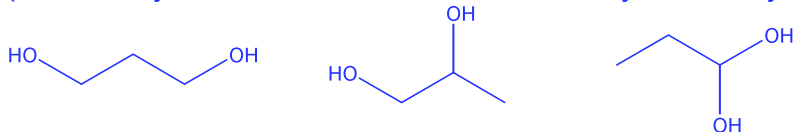
- 4) Draw structures for

(a) Two compounds with the formula C₄H₁₀

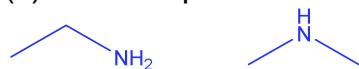


(b) Three compounds with the formula C₃H₈O₂

(There may be other structures, check with your TA if you are not sure)



(c) Two compounds with the formula C₂H₇N



(d) Five compounds of formula C₃H₆O

