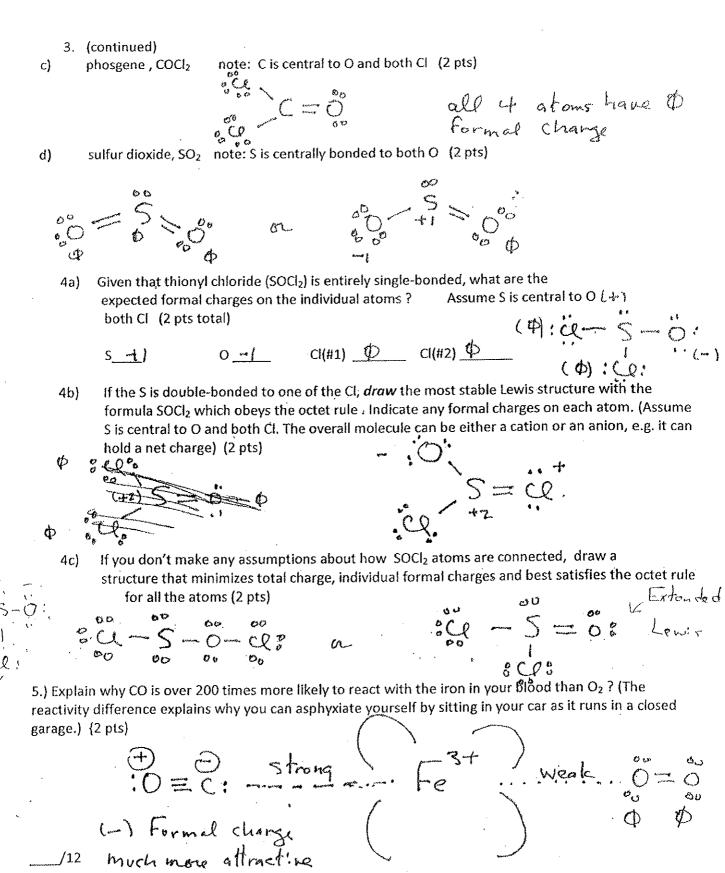
HOMEWORK ASSIGNMENT #1:ORGANIC CHEMISTRY (30 pts) Lewis Modeling: D

Your name:	Answers	1 pt
1a)	Draw the most stable Lewis dot electro	onic configuration for O in CaO and <u>clearly indicate</u>
·	its charge in your drawing:	\$ ()°
	* From Ca	00
1b)	Write down the equivalent, complete (remember: complete configuration m	15 25 2p
1c)	Does O as drawn above appear to obe	y the octet rule? (YES) NO
2a)	Draw the most stable Lewis dot electronindicate its charge in your drawing: Take Snapshat	onic configuration for one of the O in O ₂ and <u>clearly</u>
	of Oin Oi	
2b) .	* , *	electronic configuration for the above species:
2c)	Does O as drawn above appear to obe	•
2d)	Compare your answers in 1c and 2c. E	observed in your answers.
O 'm (despite the disparity you should have observed in your answers. in (1a) has taken le from Ca to form or of the covalant bond. In (2g) Shanes e with other D to form betof the covalant bond. In (2g) Shanes e with other D to form betof the covalent compounds.	
3. Draw the most stable Lewis structures for the covalent and polar covalent compounds below. Make sure to indicate any formal charge present on each atom: (2 pts each)		
•	a) O ₂	b) CO
		· C = 0 ;
	ϕ ϕ	-1 -11



Homo

to +3 Fe than

1 Formal Charge O in De

6. Decide whether the pairs below are the same or different chemical species and briefly explain <u>why</u> they are the same or different: (2 pts each/6 pts total)

Heart