Announceme	ents – Lectur	e XII – Friday, June 6 ^t	<u>h</u>		
1. Fourth Lab:	Tuesda	y, June 10 th , ISB 155	(A-C)		
2. Exam II:	Friday, June 13 th , In Class				
 6	♦ ♦ ♦ ♦ 		Slide - 107		

Quiz 9

Class #: ____

Last Name: _____

Draw the Lewis Dot Structure for the following molecules.

CO 0:

IXBP

3 XLP

IXLP

にこの

C & O ... CNOPS

F₂CO F: 217

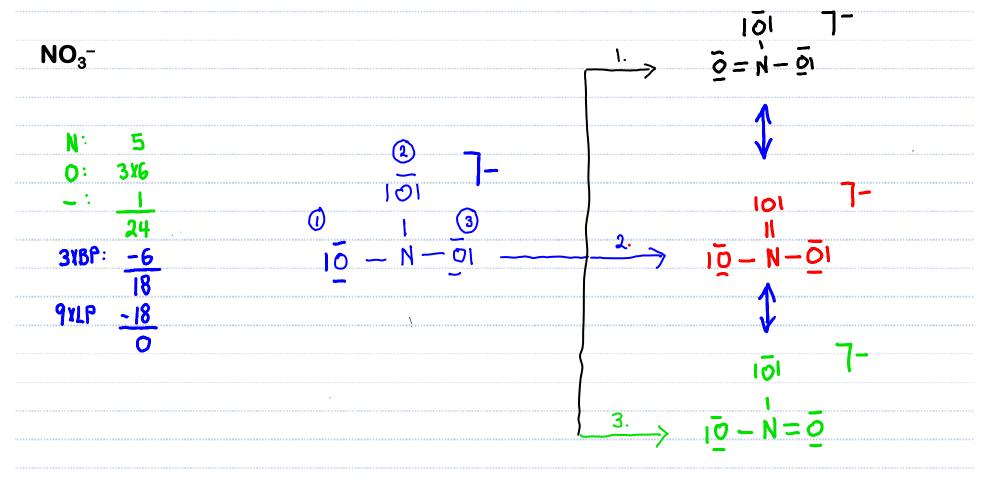
34BP:

9xLP

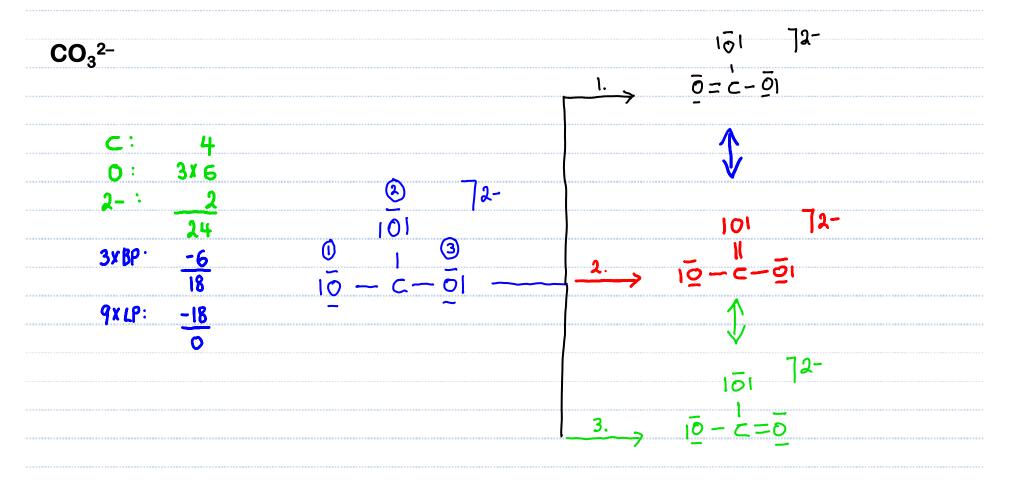
C O ... CNOPS

F notin CNOPS

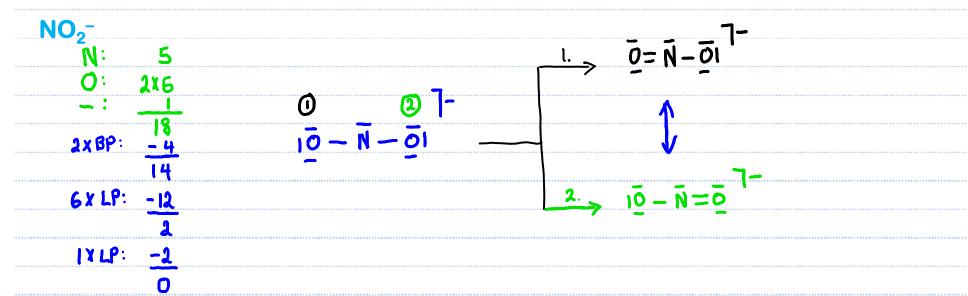
D: Drawing Lewis Structures – Multiple Bonds and Resonance



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D: Drawing Lewis Structures – Multiple Bonds and Resonance



Notes

- a) Use <> to denote that a set of Jenus Structures are resonance structures
- b) Note that Resonance Structures are not 'real' structures, they are in fact extremes. The actual structure is the neighbor average of all reasonable resonance structures.

C: Exceptions to the Octet Rule

SF				
SF ₆	6	•	_	
F:	6×7		-1	
	48	IF	JF	1
6×BP	: <u>-12</u>	 - >	5(]	
	36	Ē	F	-1
18x L	P: -36		Fl	
	0	•		

22

IF - Xe-F

24Bb: -4

....

6xLP: -12

6

3xLP -6

XeF₄

Xe: 8

F: 417 36

41BP: -8

12xLP: -24

3xLb: -4

Notes

o) Beyond the octet is seen only when the control atom is period 3 or greater.

8.2	Lewis Structures C: Exceptions to the Octet Rule						
BF ₃			BeF ₂				
B:	3	IFI	Be: 1				
	317	f	F: 217	_			
	24	IF - B-FI	16	IF - Be-Fl			
3xBP:		_	2xBp: <u>-4</u>	-			
	18	No multiple bond as neither	12				
PATE	-18	B nor F lelong to CNOPS	6xLP: -12				
	Ō		0				

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C: Organic Molecules

 C_2H_6O

2×4

-16

- 6X1 20
- 818b:

d) 6 🗸 a) 3 b) 4 e) Help

there in C₂H₆O

How many C-H bonds are

c) 5 🗸

- JILP:
 - How do I know which one? Does it matter?

Notes

- 4 Bond pairs O Jone pairs
- 3 Bond pairs 1 Jone pair
- 2 Jone pairs 2 Bond pairs
- Hologens: Bond pair 3 Jane pairs
 - **H**: 1 Bond pair

C: Organic Molecules

CH₃CH₂OH

CH₃OCH₃

Dinethyl ether: Boiling Point, -23°C

CH₃COCH₃

Ketone ... acetone

CH₃COOH

Carboxilic acid