A	nnounceme	nts –	Lec	ture	XII	- F	rida	ay, J	une 7 th		
	nth /on.					1.9					
	4 th Aab : Exam II :				•						
	6	6 6		6 5	F]	L	>		Slide - 10	03

		•	
		17	
-	U	14	. •

Last Name: _____

Draw the Lewis Dot Structure for the following molecules.

C: 4
$$|F-C-O|$$

O: 6

24 $|C \neq O|$ CNOPS

1C-O1 3Y8F: -6 $|F|$ F Not in CNOPS

18

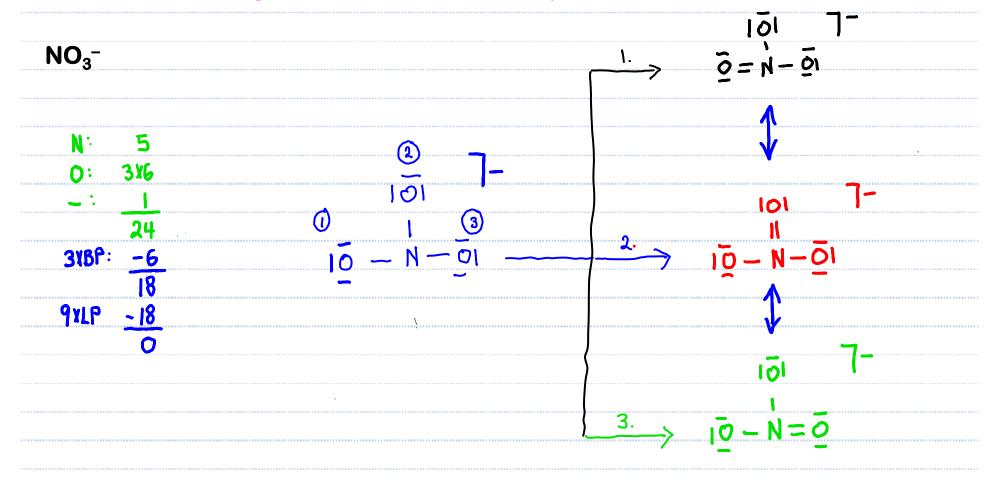
9xLP -18

 $|F|$ C $|F|$ CNOPS

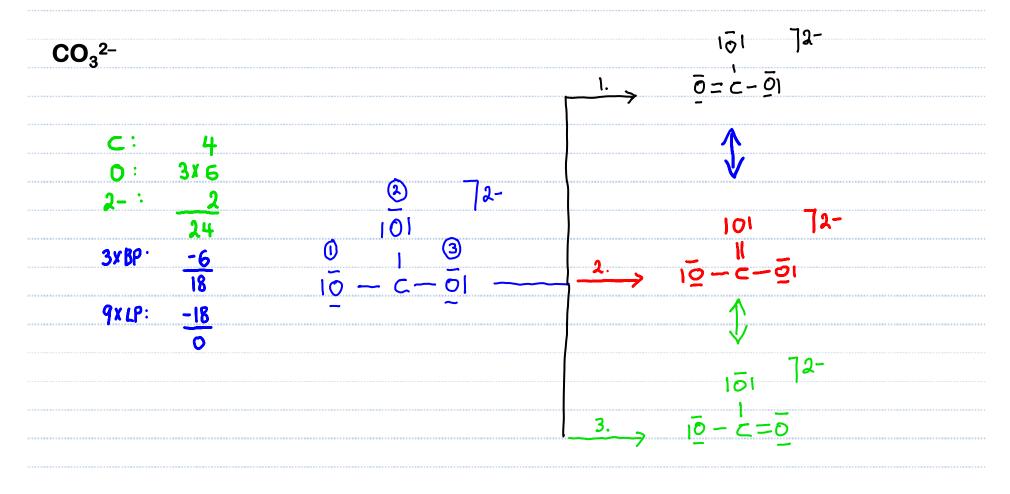
0 $|F|$ C $|F|$ CNOPS

F₂CO

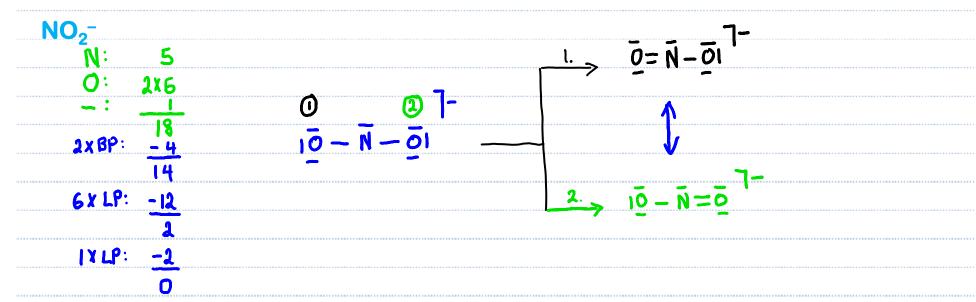
D: Drawing Lewis Structures – Multiple Bonds and Resonance



D: Drawing Lewis Structures – Multiple Bonds and Resonance



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:			ιFI	
	48	l i		٦Ē١
6×B	P: -12	_	· \s	
	36	ΙĒ		FI
18 x1	LP: -36		(F)	
	0		_	

Xe: 8

IF - Ne-F

18

6!

XeF₄ Xe: 8 F: 417 36 IF Y18P: -8 Xe IAVLP: -24 4

2xLP: -4

Notes

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

8.2		s Structures xceptions to the Octet Ru	le	
BF ₃	3	1FI	BeF ₂	
F:	317 24	1 1F - B - FI	F: 217 16	IF - Be-Fl
3x8p:	<u>-6</u> 18	No multiple bond as neither	2xBp : <u>-4</u> 12	
9116	<u>-18</u>	B NOR F Lelong to CNOPS	0 6x16: -13	

- 8.2 **Lewis Structures**
 - C: Organic Molecules
- C_2H_6O
 - How many C-H bonds are there in C₂H₆O
 - a) 3
- d) 6 🗸
- b) 4
- e) Help
- c) 5 🗸

- 2×4
- 6X1
- - 20
- 818b: -16
- 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 H 7

CH₃COOH

Carboxilic acid