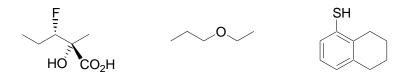
Mechanisms Quiz #1

20 points

NAME:

1-3) Draw Lewis structures (showing all hydrogens and including all lone pairs) for the following molecules:



4-5) In the Ether above, what is the hybridization of the Oxygen, and hence what is the C-O-C bond angle?

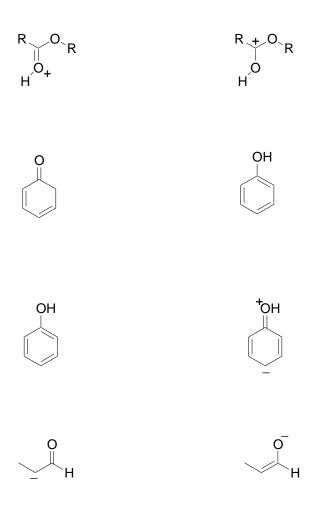
6-8) Draw all the resonance structures for the following species, and draw curly arrows to show the electron reorganization.

R





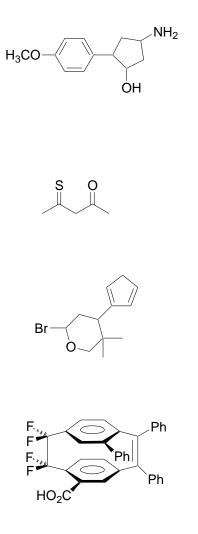
9-12) Indicate whether the pairs shown are tautomers or resonance structures.



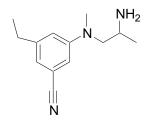
13-14) Indicate whether the following molecules are aromatic or non-aromatic.



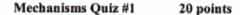
15-18) Identify the most acidic hydrogen in each molecule.



19) Circle the most basic atom in this molecule.

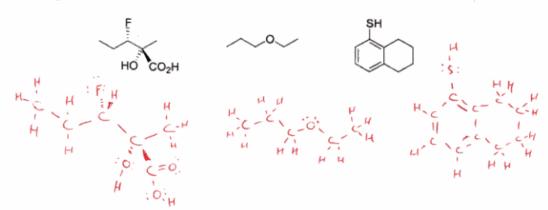


20) Identify the Nucleophile in this reaction.



NAME:

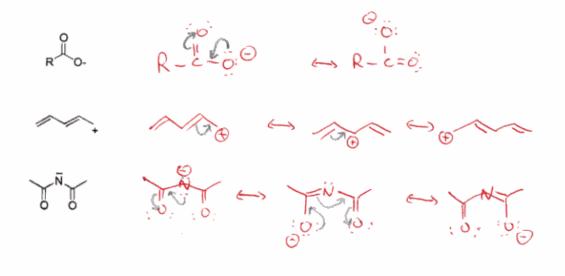
1-3) Draw Lewis structures (showing all hydrogens and including all lone pairs) for the following molecules:



4-5) In the Ether above, what is the hybridization of the Oxygen, and hence what is the C-O-C bond angle?

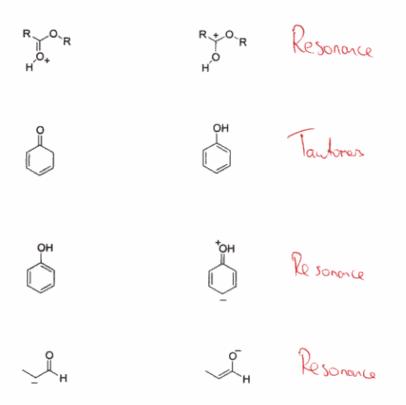
Sp 1092

6-8) Draw all the resonance structures for the following species, and draw curly arrows to show the electron reorganization.



Page 1

9-12) Indicate whether the pairs shown are tautomers or resonance structures.



13-14) Indicate whether the following molecules are aromatic or non-aromatic.

Non Annata .

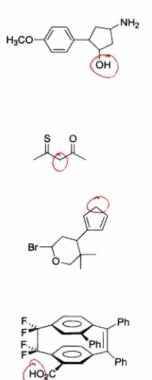
5

Non Annatic

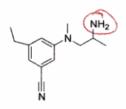
Mech-Q1

Page 2

15-18) Identify the most acidic hydrogen in each molecule.



19) Circle the most basic atom in this molecule.



20) Identify the Nucleophile in this reaction.

Br—Br	AlBr ₃	-	BrBr-AiBr
1	1		Br
Nuc	Electophile	M	ech-Q1
			£.

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