

Organic Chemistry I, Spring 2018, Quiz 1a

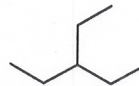
Name:

Answer key

Signature:

The following quiz will begin 5 minutes into recitation and will last for 20 minutes. It consists of 4 questions, 20 points total. Show all of your work in the space provided for partial credit.

1. Provide the IUPAC name of the following molecule (5 points).

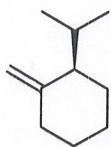


3-ethylpentane

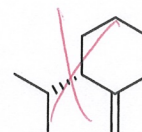
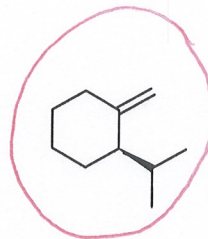
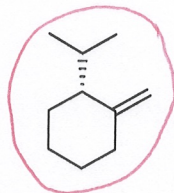
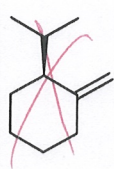
2. Provide a reasonable structure with the formula $C_5H_8O_2$ using line angle notation (5 points).

Various right answers
ie

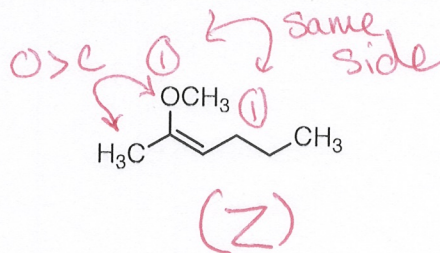
3. Circle the molecule(s) that are identical to the compound to the left (5 points).



?
=



4. Assign the stereochemistry (*E*) or (*Z*) to the following alkene (5 points).



Organic Chemistry I, Spring 2018, Quiz 1e

Name: *Ansun*

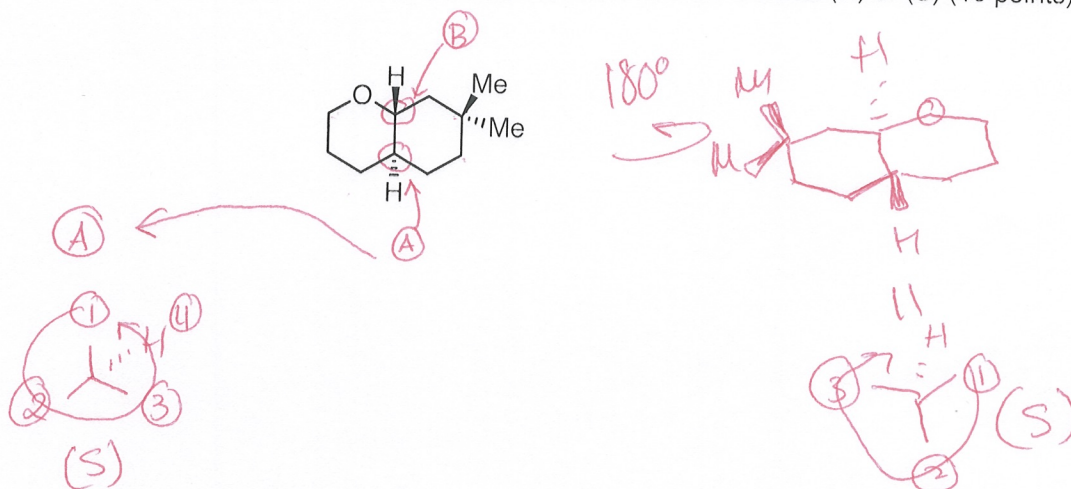
Signature:

The following quiz will begin 5 minutes into recitation and will last for 20 minutes. It consists of 3 questions, 20 points total. Show all of your work in the space provided for partial credit.

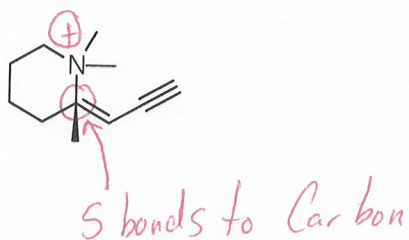
1. Draw the molecule 2-methylhexane using line-angle notation (5 points).



2. Circle all the stereogenic centers on the following molecule and label them as (R) or (S) (10 points).



3. Briefly describe what is wrong about the following structure. There may be more than one thing (5 points).



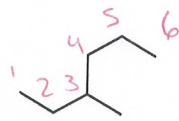
Organic Chemistry I, Spring 2018, Quiz 1b

Name: *Answer Key*

Signature:

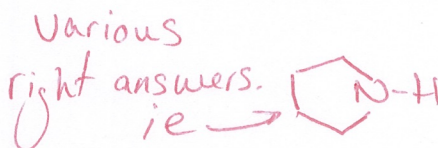
The following quiz will begin 5 minutes into recitation and will last for 20 minutes. It consists of 4 questions, 20 points total. Show all of your work in the space provided for partial credit.

1. Provide the IUPAC name of the following molecule (5 points).

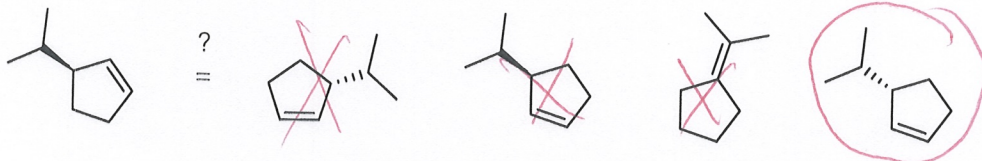


3-methylhexane

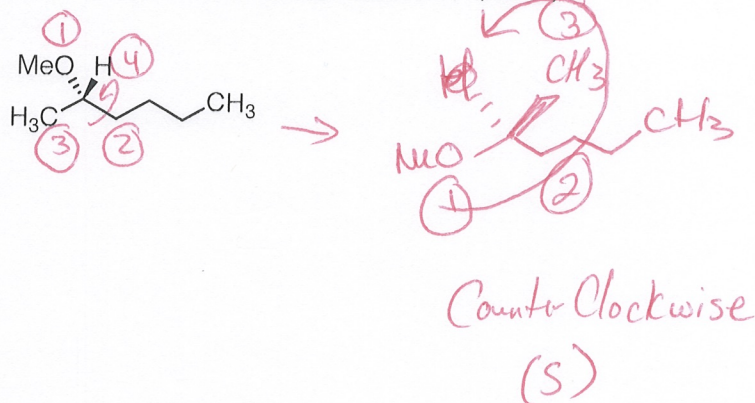
2. Provide a reasonable structure with the formula C_4H_9N using line angle notation (5 points).



3. Circle the molecule(s) that are identical to the compound to the left (5 points).



4. Assign the stereochemistry (*R*) or (*S*) to the following molecule (5 points).



Organic Chemistry I, Spring 2018, Quiz 1c

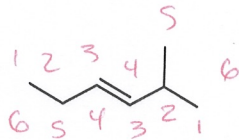
Name:

Answer

Signature:

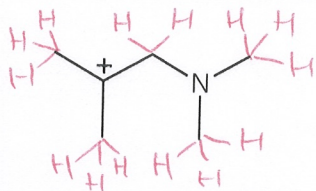
The following quiz will begin 5 minutes into recitation and will last for 20 minutes. It consists of 4 questions, 20 points total. Show all of your work in the space provided for partial credit.

1. Provide the IUPAC name of the following molecule (5 points).

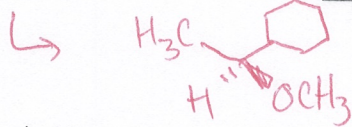
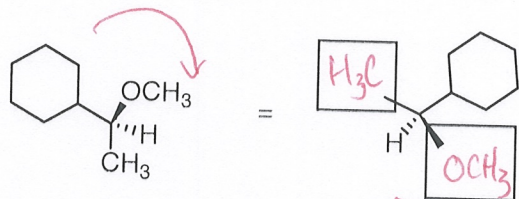


2-methyl-3-hexene or 2-methylhex-3-ene

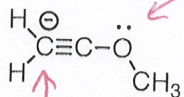
2. Draw in all of the hydrogens and lone pairs in the following line-angle structure (5 points).



3. Place the appropriate appendages in the boxes provided (5 points).



4. Briefly describe what is wrong about the following structure. There may be more than one thing. (5 points).



5 bonds,
10 e⁻

4e⁻, oxygen should either have lone pair or be 2⁺ charge

Organic Chemistry I, Spring 2018, Quiz 1d

Name: *Answer*

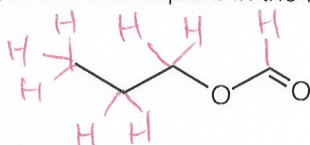
Signature:

The following quiz will begin 5 minutes into recitation and will last for 20 minutes. It consists of 4 questions, 20 points total. Show all of your work in the space provided for partial credit.

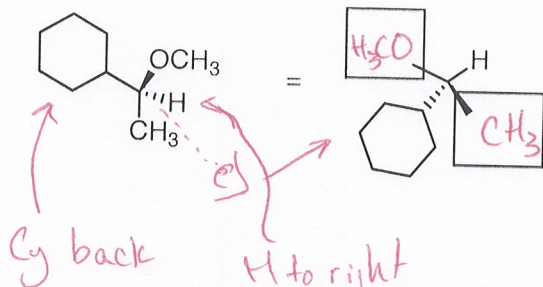
1. Draw the molecule (Z)-2-hexene using line-angle notation (5 points).



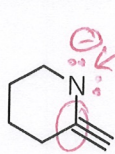
2. Draw in all of the hydrogens and lone pairs in the following line-angle structure (5 points).



3. Place the appropriate appendages in the boxes provided (5 points).



4. Briefly describe what is wrong about the following structure. There may be more than one thing (5 points).



nitrogen can't be neutral here.
likely -1 charge, w/ 2 lone pairs.

10e⁻, 5 bonds (ie, wrong charge (⊕) should be -1, and too many electrons)