QUESTION 1

Which best describes the product of the following reaction sequence?

1. NBS/hv
2. Na\(^+\) - OH
3. PCC
4. NaBH\(_4\)/EtOH
5. PCC

![Diagram]

A  
B  
C  
D  

QUESTION 2

Give the IUPAC name for the following structure

A  1-bromo-(5S)-phenylhex-(2E)-en-4-one
B  1-bromo-(5R)-phenylhex-(2E)-en-4-one
C  6-bromo-(2R)-phenylhex-(4Z)-en-3-one
D  6-bromo-(2R)-phenylhex-(4E)-en-3-one

QUESTION 3

How many enolizable hydrogens does the following structure possess?

A  0  
B  1  
C  2  
D  3
QUESTION 4
MC34n
Which is the most correct statement?

A an enol is a stronger nucleophile than an enamine because oxygen is more electronegative than nitrogen
B an enol is a weaker nucleophile than an enamine because oxygen is more electronegative than nitrogen
C an enol is a stronger nucleophile than an enamine because oxygen is less electronegative than nitrogen
D an enol is a weaker nucleophile than an enamine because oxygen is less electronegative than nitrogen

QUESTION 5
MC32c
Which of the following is a possible (not necessarily most probable) product of the following reaction sequence?

1. $\text{H}_3\text{CCOCl/AlCl}_3$
2. $\text{Br}_2/\text{FeBr}_3$
3. $\text{Zn/Hg/HCl/H}_2\text{O}$
4. $\text{SO}_3/\text{H}_2\text{SO}_4$

A

B

C

D
QUESTION 6
MC32d
Which of the following is a possible (not necessarily most probable) product of the following reaction sequence?

1. HNO$_3$/H$_2$SO$_4$
2. Cl$_2$/AlCl$_3$
3. H$_2$/Pd/C
4. CO/HCl/AlCl$_3$

Which of the following is a possible (not necessarily most probable) product of the following reaction sequence?

A

B

C

D


QUESTION 7
MC34f
Which is the STRONGEST BRONSTED acid among the following? This is a long question! FRST, find the most acidic proton in each structure and then compare them. The most acidic proton will allow be an enolizable proton

A

B

C

D


QUESTION 8
MC34u
Rank the following in order of INCREASING Bronsted Acidity

A

B

C

D
QUESTION 9

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I study hard to learn organic chemistry.

A   Never
B   Rarely
C   Sometimes
D   Often
E   Always

QUESTION 10

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I spend a lot of time learning organic chemistry.

A   Never
B   Rarely
C   Sometimes
D   Often
E   Always

QUESTION 11

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I put enough effort into learning organic chemistry.

A   Never
B   Rarely
C   Sometimes
D   Often
E   Always
QUESTION 12
There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes
I use strategies to learn organic chemistry well.
A  Never
B  Rarely
C  Sometimes
D  Often
E  Always

QUESTION 13
There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes
What overall final grade do you really need in this class (note that the question asks about the grade that you need, not the grade you want, these two may not be the same!)?
A
B
C
D

QUESTION 14
There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes
As of today, what final grade would you be realistically willing to accept in this course
A
B
C
D