CHM 234, Spring 2020
QUIZ #3
(hit the RETURN Button to return to the Main Quiz Page)

QUESTION 1
MC28b

Which is the correct IUPAC name for the following structure?

A. 2,3-dimethyloct-(2Z)-en-6-yne
B. 6,7-dimethyloct-6-en-2-yne
C. 2,3-dimethyloct-2-en-6-yne
D. 6,7-dimethyloct-(6E)-en-2-yne

QUESTION 2
MC28c

Which is the most exothermic reaction?

A

B

C

D
QUESTION 3
MC271

Which best describes the product of the following reaction sequence?

1. NBS, hv
2. K^+ -O-t-Bu/DMF
3. HBR/HOOH
4. NaOH/DMF

A
B
C
D

QUESTION 4
MCalkenesIu

Give the best reagents/conditions to perform the following reaction

A   H_2O/H_2SO_4 (cat.)
B   1. BH_3.THF
    2. NaOH/H_2O_2
C   conc. H_2SO_4/heat
D   1. Hg(OAc)_2/H_2O
    2. NaBH_4
QUESTION 5
MC27ab
Use the pKa values given in your notes to decide which best describes the following acid/base equilibrium:

\[ \text{Na}^+ \text{NH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{NH}_3 + \text{Na}^+ \text{-OH} \]

A. \( \text{NH}_3 \) is the stronger acid and the equilibrium lies on the LEFT
B. \( \text{NH}_3 \) is the stronger acid and the equilibrium lies on the RIGHT
C. \( \text{H}_2\text{O} \) is the stronger acid and the equilibrium lies on the LEFT
D. \( \text{H}_2\text{O} \) is the stronger acid and the equilibrium lies on the RIGHT

QUESTION 6
MCalkenesIv
Which represents the best reagents/conditions SEQUENCE to perform the following transformation? (ignore stereochemistry)

A. 1. \( \text{H}_2 / \text{Pd/C} \)  
2. \( \text{NBS/hv} \)
C. 1. \( \text{NBS/hv} \)  
2. \( \text{H}_2 / \text{Pd/C} \)

B. 1. \( \text{H}_2 / \text{Pd/C} \)  
2. \( \text{Br}_2 / \text{hv} \)
D. 1. \( \text{Br}_2 / \text{hv} \)  
2. \( \text{H}_2 / \text{Pd/C} \)
**QUESTION 7**  
MC24s

Which would be the major product of the following reaction?

![Reaction Scheme](image)

**QUESTION 8**  
MC26f

Which is the product of the following reaction sequence? It includes BOTH an E2 elimination and an SN2 reaction.

1. $\text{Br}_2/\text{hv}$
2. $\text{t-BuO}^+\text{K}/\text{acetone}$
3. $\text{HBr/peroxides}$
4. $\text{CH}_3\text{O}^-\text{Na}/\text{acetone}$

![Reaction Scheme](image)
**QUESTION 9**
There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes
I believe I can earn an A grade in 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 am confident that I will do well on organic chemistry tests
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 believe that I can master organic chemistry knowledge and skills
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'm sure I can understand organic chemistry
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