

CHM 234, Spring 2018

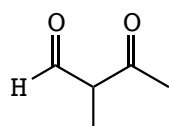
QUIZ #11

(hit the RETURN Button to return to the Main Quiz Page)

QUESTION 1

MC33g

Which best describes the product of the following reaction sequence?

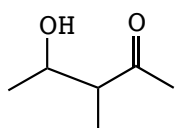


1. 1 Equiv. MeMgBr

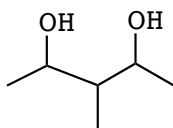
2. H_3O^+

3. PCC

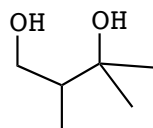
4. Excess $\text{NaBH}_4/\text{EtOH}$



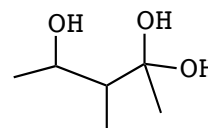
A



B



C

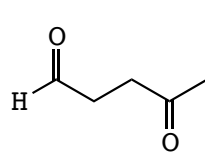


D

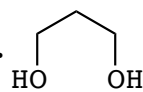
QUESTION 2

MC331

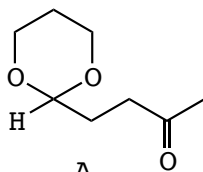
Give the best product for the following reaction



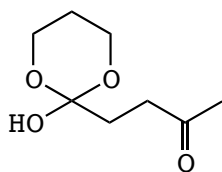
1 Equiv.



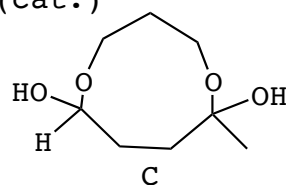
HCl (cat.)



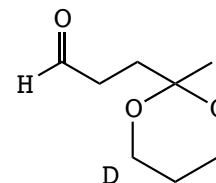
A



B



C

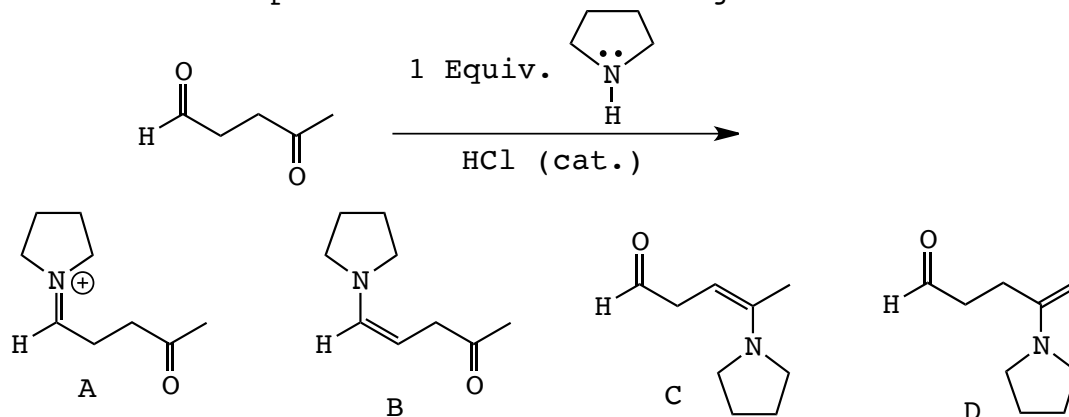


D

QUESTION 3

MC33m

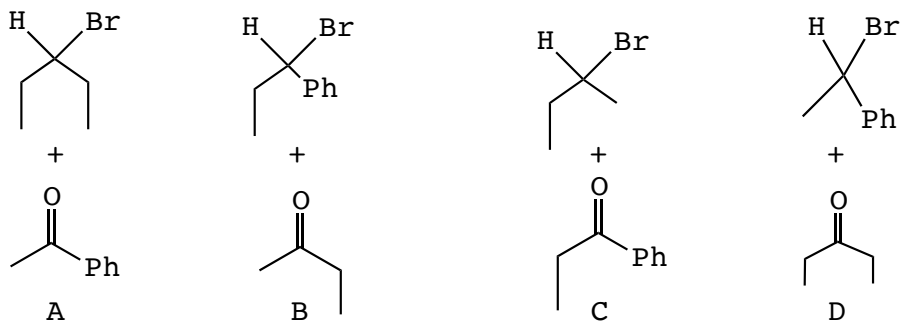
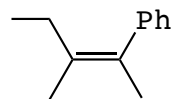
Give the best product for the following reaction



QUESTION 4

MC33o

The Wittig reaction starts with an alkyl halide and a carbonyl compound and ends with an alkene. Which are the BEST alkyl halide and carbonyl compounds to use in a Wittig synthesis of the alkene below

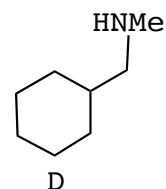
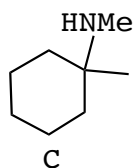
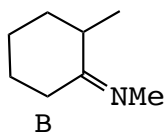
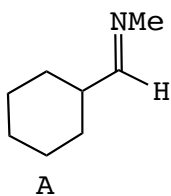
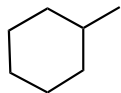


QUESTION 5

MC33s

Give the product of the following reaction sequence

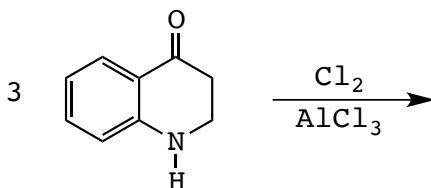
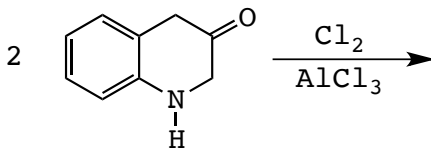
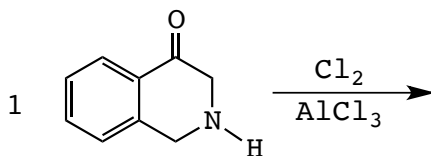
1. NBS/hv
2. $K^+ -O-t-Bu$
3. $BH_3 \cdot THF$
4. $-OH/H_2O_2$
5. PCC
6. $MeNH_2/HCl(cat.)$



QUESTION 6

MC32k

For the following reactions indicated as 1, 2 and 3, which is the correct order of INCREASING rate of electrophilic aromatic substitution?

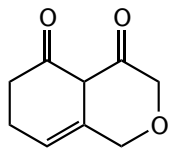


- A 1 (slowest) < 2 < 3 (fastest)
B 2 (slowest) < 3 < 1 (fastest)
C 1 (slowest) < 3 < 2 (fastest)
D 3 (slowest) < 2 < 1 (fastest)

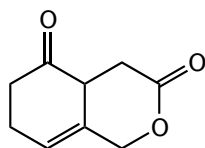
QUESTION 7

MC34f

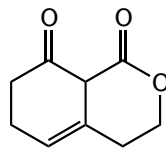
Which is the STRONGEST BRONSTED acid among the following?
This is a long question! FRST, find the most acidic proton in each structure and then compare them. The most acidic proton will always be an enolizable proton



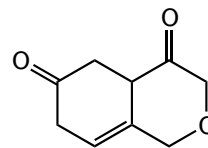
A



B



C

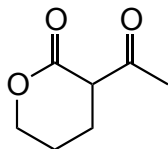


D

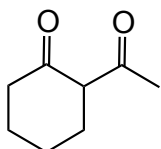
QUESTION 8

MC34u

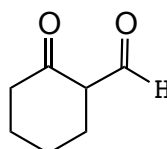
Rank the following in order of INCREASING Bronsted Acidity



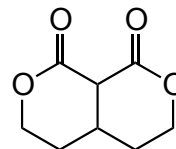
I



II



III



IV

A I < II < IV < III

B I < II < III < IV

C III < II < I < IV

D IV < I < II < III

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

