QUESTION 1
MC29f

Give the product of the following reaction sequence with the starting material shown:

1. Excess LiAlH₄
2. H₃O⁺
3. Na₂Cr₂O₇/H₂SO₄/H₂O
4. NaOH
5. MeI (hint, SN₂ reaction)

A

B

C

D

QUESTION 2
MC29o

Which is the WEAKEST Bronsted acid?

A

B

C

D
QUESTION 3
MC29t
Identify the following reaction as indicated (stereochemistry is ignored)

\[
\text{OH} \quad \overset{\text{Na}_2\text{Cr}_2\text{O}_7/\text{H}_2\text{SO}_4/\text{H}_2\text{O}}{\longrightarrow} \quad ???
\]
A addition and neither oxidation or reduction
B elimination and neither oxidation or reduction
C addition and reduction
D elimination and oxidation

QUESTION 4
MC29u
Give the product of the following reaction sequence

\[
\text{OH} \quad 1. \text{PBr}_3 \quad 2. \text{Na}^{2+}\text{C=CH} \quad 3. \text{Si}_2\text{BH}\text{.THF} \quad 4. \text{OH}/\text{H}_2\text{O}_2 \quad 5. \text{Na}_2\text{Cr}_2\text{O}_7/\text{H}_2\text{SO}_4/\text{H}_2\text{O} \quad ???
\]
A \quad B \quad C \quad D

A
B
C
D
QUESTION 5

Give the reagents/conditions to perform the following reaction

\[ \text{H-C≡C-H} \rightarrow \text{???} \rightarrow \text{H-C≡C-OH} \]

A
1. NaNH₂
2. O
3. H₃O⁺

B
1. NaNH₂
2. O
3. H₃O⁺

C
1. NaNH₂
2. O
3. H₃O⁺

D
1. NaNH₂
2. O
3. H₃O⁺

QUESTION 6

rank the following in order of DECREASING Bronsted acidity

A. III > IV > II > I
B. IV > II > III > I
C. IV > III > I > II
D. I > II > IV > III
QUESTION 7
Which is the product of the following reaction sequence?

1. Br$_2$
2. Excess NaNH$_2$
3. HgSO$_4$/H$_2$SO$_4$/H$_2$O

A  B  C  D

QUESTION 8
Which are the best synthons for disconnection of the bond indicated by the dashed line?

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 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