QUESTION 1
Grignardsa
Give the structure that you would use with the provided Grignard reagent to give the provided product.

\[
\begin{align*}
  \text{O} & \quad \text{C} \quad \text{O} \\
\end{align*}
\]

A \quad B \quad C \quad D

QUESTION 2
MC29g
Give the product of the following reaction sequence with the starting material shown.

\[
\begin{align*}
  \text{O} & \quad \text{C} \quad \text{O} \\
\end{align*}
\]

A \quad B \quad C \quad D
QUESTION 3
Grignardsb
Give the structure that you would use with the provided Grignard reagent to give the provided product

A

B

C

D

1. ???
2. H₃O⁺

QUESTION 4
Grignardsc
Give the Grignard reagent you would use to complete the following reaction

1. ???
2. H₃O⁺

A

B

C

D
QUESTION 5
Grignardsd

Give the Grignard reagent you would use to complete the following reaction:

\[
\begin{align*}
1. \quad & \text{O} \\
2. \quad & \text{H}_3\text{O}^+ \\
\text{???} \\
\end{align*}
\]

\[
\begin{align*}
\text{A: } & \text{Ph-MgBr} \\
\text{B: } & \text{Ph-CH}_2\text{MgBr} \\
\text{C: } & \text{Ph-CH}_2\text{MgBr} \\
\text{D: } & \text{Ph-CH}_2\text{MgBr} \\
\end{align*}
\]

QUESTION 6
Grignardse

How many of the carbon-carbon bonds in the following structure could have been made in a Grignard reaction with either a carbonyl compound (C=O) or an epoxide?

\[
\begin{align*}
\text{A: } & 2 \text{ bonds} \\
\text{B: } & 3 \text{ bonds} \\
\text{C: } & 4 \text{ bonds} \\
\text{D: } & 5 \text{ bonds} \\
\end{align*}
\]
**QUESTION 7**

MC29c

Give the product of the following reaction sequence with the starting material shown, (hint, be careful with step #5, remember that Grignards are strong Bronsted bases!)

1. LiAlH₄
2. H₂O⁺
3. PBr₃
4. Mg·THF
5. H₂O⁺

![Diagram of reaction sequence and products](attachment:image.png)

**QUESTION 8**

MC29b

Give the product of the following reaction sequence with the starting material shown (hint, be careful at step #3, remember that a Grignard reagent will also be a strong Bronsted base!)

1. Excess LiAlH₄
2. H₂O⁺
3. Excess MeMgBr
4. H₂O⁺
5. Na₂Cr₂O₇/H₂SO₄/H₂O

![Diagram of reaction sequence and products](attachment:image.png)
QUESTION 9
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 expect to earn in this class?
A   B   C   D

QUESTION 10
There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes
How hard did you work on organic chemistry this week (not including watching/attending lectures)
A   Very Hard
B   Hard
C   Somewhat Hard
D   Not very Hard this week