Quiz 4. Wednesday Morning

Name:
Recitation Instructor:

You have 20 minutes to complete the following quiz.

1) Show a mechanism of the following transformation (5 points)

\[
\begin{array}{c}
\text{H-C\equiv N} \\
\text{Cyclic ketone} \\
\rightarrow \\
\text{Cyclic amide}
\end{array}
\]

2) Show the reagents necessary to carry out the following reaction (5 points)

\[
\begin{array}{c}
\text{Cyclic ketone} \\
\rightarrow \\
\text{Cyclic with OMe groups}
\end{array}
\]

3) Show how you would carry out the following transformation (10 points)

\[
\begin{array}{c}
\text{Cyclic alcohol} \\
\rightarrow \\
\text{Cyclic with two OH groups}
\end{array}
\]