Organic II Quiz 2a
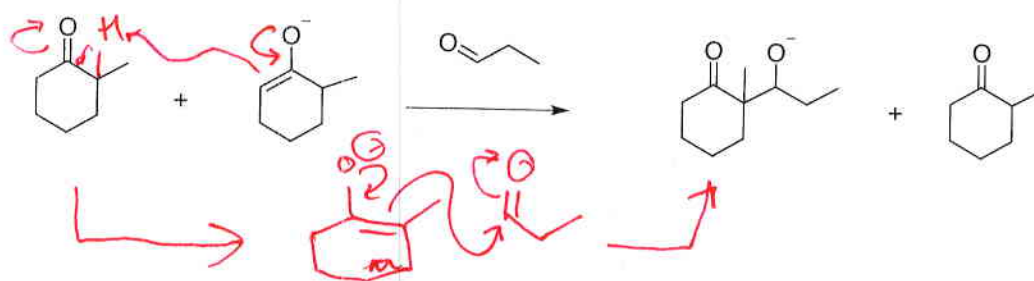
Name:

Signature:
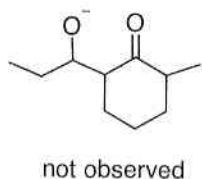
Recitation Instructor:

The following quiz begins 5 minutes into the start of your recitation and will last for 1/2 hour. Good Luck!

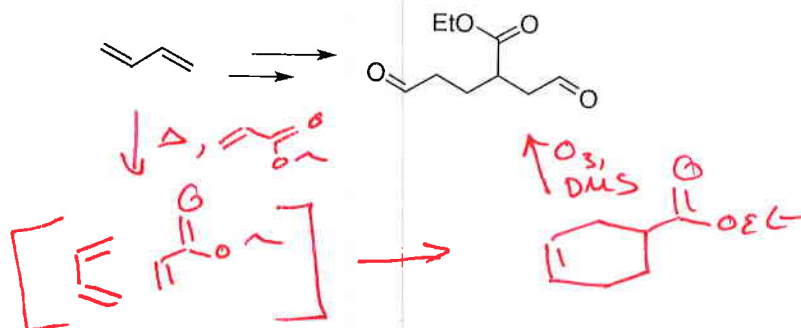1a. Please provide a mechanism for the following transformation (7 points each)

1b. Provide an explaination for the observation of the above product, and not the below product (3 points).

not observed

excess Ketone renders enolization reversible, leading to thermodynamic enolate

2. Propose a synthesis for the following interconversion. Use any other starting material (10 points)
Hint: If you use a Diels-Alder Reaction, you could do it in 2 steps. Without a Diels-Alder, it will take many more steps.
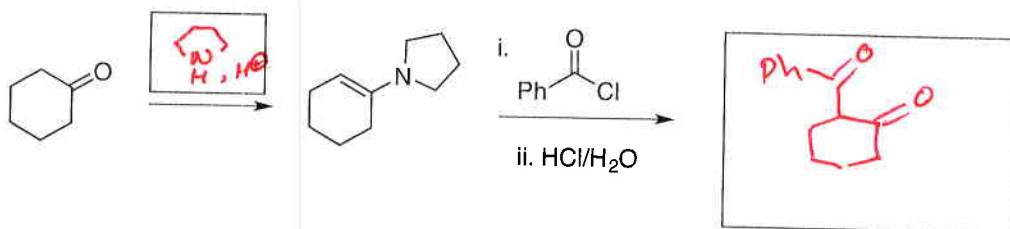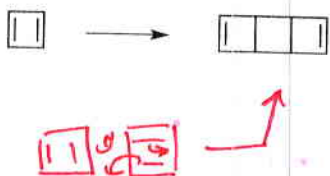
Organic II Quiz 2b

Name:

Signature:

Recitation Instructor:

The following quiz begins 5 minutes into the start of your recitation and will last for 1/2 hour. Good Luck!
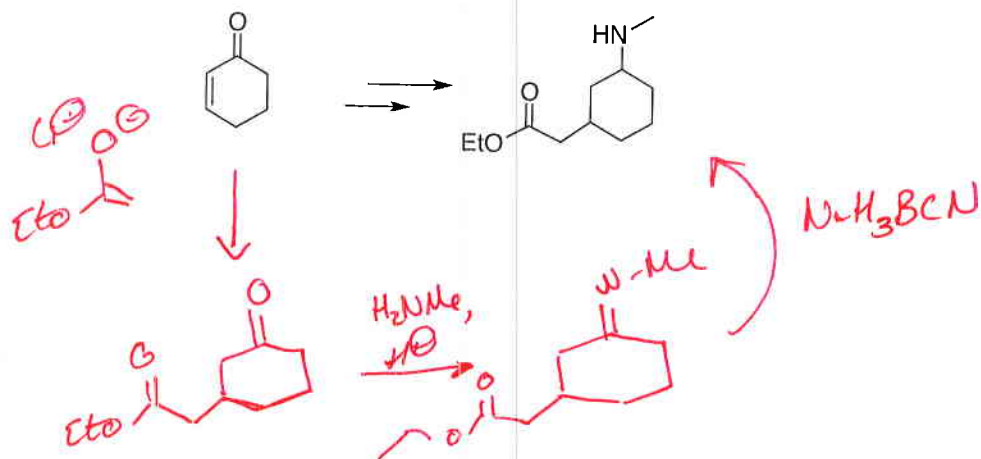
1. Please fill in the blank (3 points each)

2. Please show a mechanism for the following transformation (4 points).

3. Propose a synthesis for the following interconversion (10 points).

NaH₃BCN

Organic II Quiz 2c

Name:

Signature:

Recitation Instructor:

The following quiz begins 5 minutes into the start of your recitation and will last for 1/2 hour. Good Luck!

1. Please fill in the blank (3 points each)

2. Please show a mechanism for the following transformation (4 points).

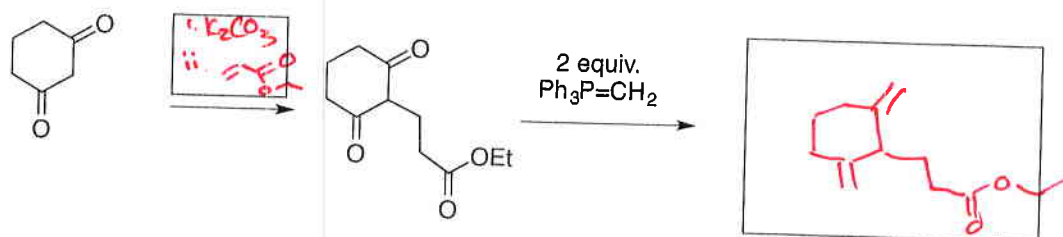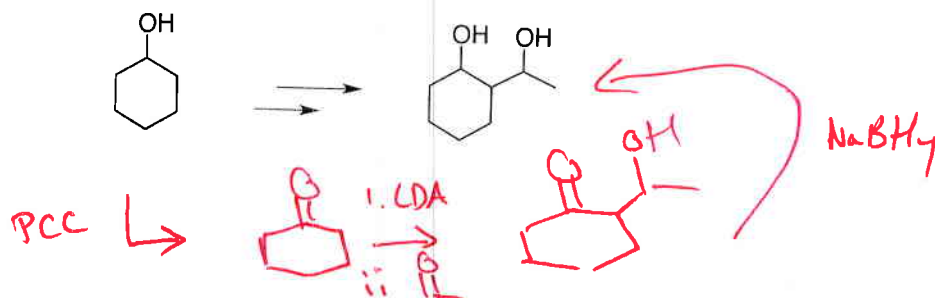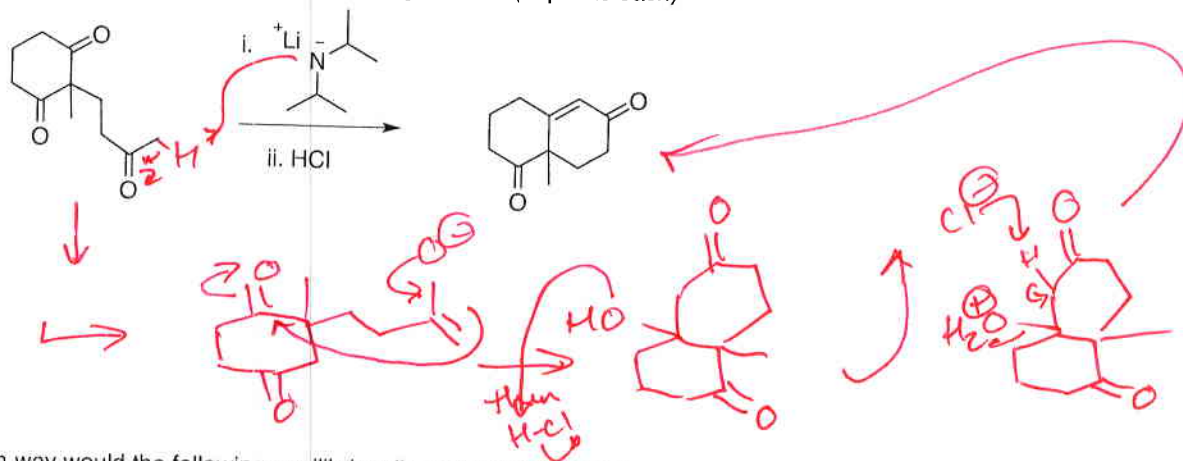3. Propose a synthesis for the following interconversion (10 points).

Organic II Quiz 2d

Name:

Signature:

Recitation Instructor:

The following quiz begins 5 minutes into the start of your recitation and will last for 1/2 hour. Good Luck!

1. Please show a mechanism for the following reaction (6 points each)

2.Which way would the following equilibrium lie and why? (4 points).

Carbonyls are highly stabilicing our enol ether

3. Propose a synthesis for the following interconversio, **using propene as your only carbon containing starting material** (10 points).

Organic II Quiz 2e

Name:

Signature:

Recitation Instructor:

The following quiz begins 5 minutes into the start of your recitation and will last for 1/2 hour. Good Luck!
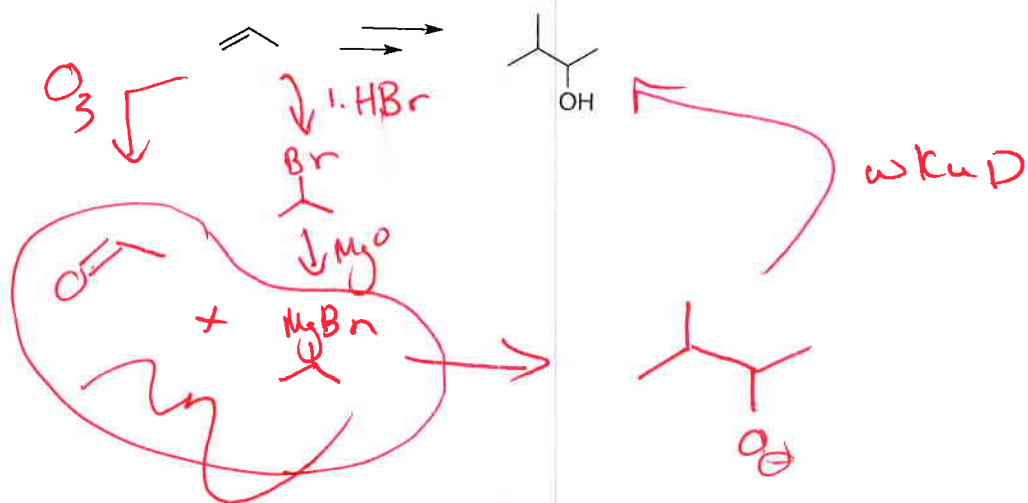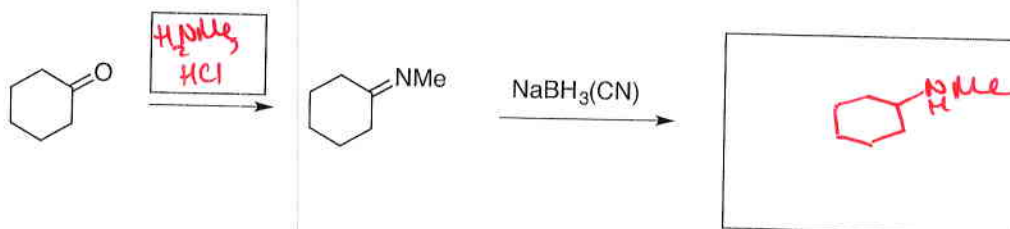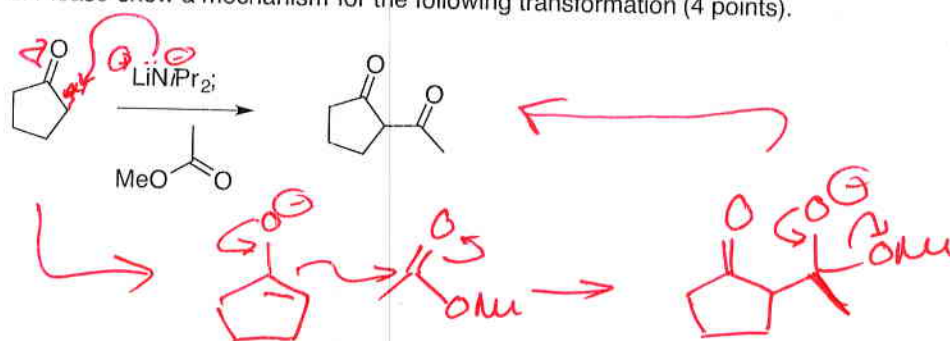
1. Please fill in the blank (3 points each)

2. Please show a mechanism for the following transformation (4 points).

3. Propose a synthesis for the following interconversion (10 points). *hint: A cope rearrangement at some point in the synthesis might dramatically simplify the synthesis.*