

 **Preview Assessment: Workshop 7 Part 1**

Name Workshop 7 Part 1

Instructions

Multiple Attempts This Test allows multiple attempts.

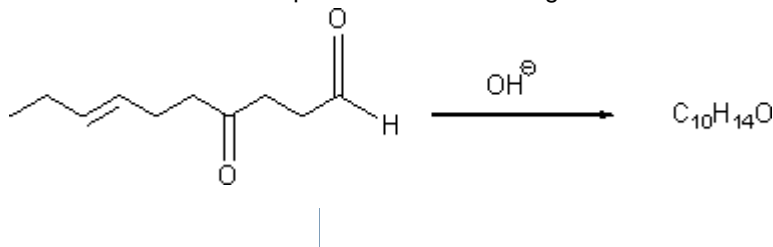
Force Completion This Test can be saved and resumed later.

▼ **Question Completion Status:**

Question 1

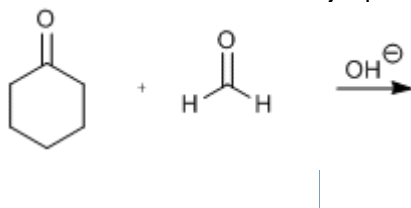
1 points [Save](#)

Draw the structure of the product of the following reaction:

**Question 2**

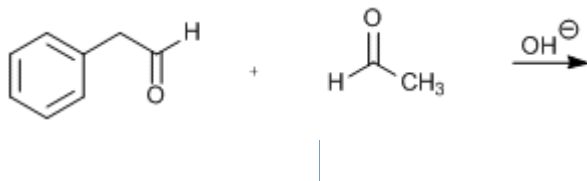
1 points [Save](#)

Draw the structure of the major product of the following reaction:

**Question 3**

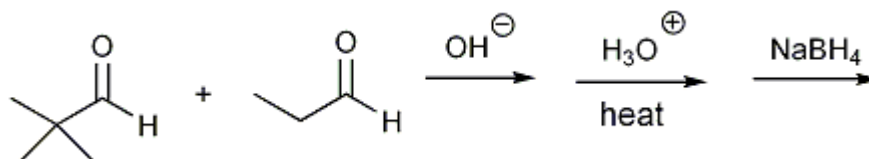
1 points [Save](#)

There are four major products from the following crossed-aldol reaction. Draw the structure of the product with the molecular formula $\text{C}_{10}\text{H}_{12}\text{O}_2$ (you do not need to specify the stereochemistry):

**Question 4**

1 points [Save](#)

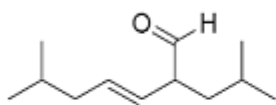
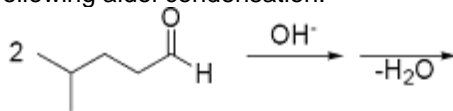
Draw the structure of the major product of the following reaction sequence.



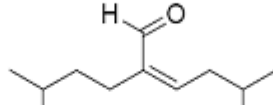
Question 5

1 points

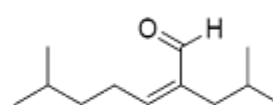
Predict the product of the following aldol condensation.



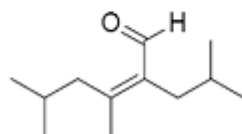
A



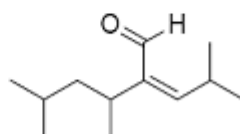
B



C



D



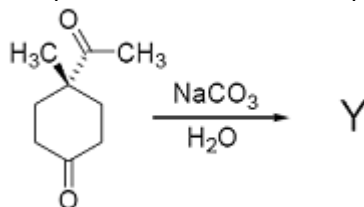
E

- A
 B
 C
 D
 E

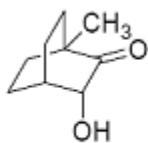
Question 6

1 point

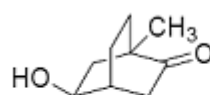
In the presence of base the compound below cyclizes to give a compound Y.



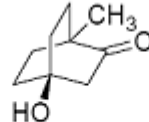
Identify the structure of compound Y.



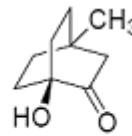
A



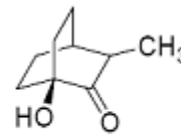
B



C



D



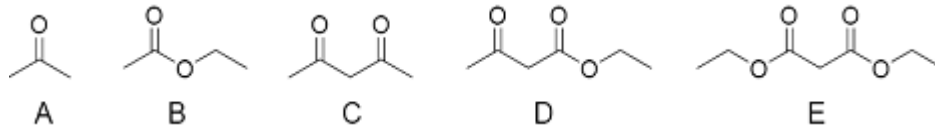
E

- A
 B
 C

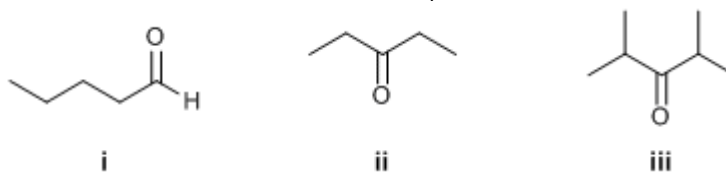
- D
 E

Question 71 points [Save](#)

Which of the following compounds is the most acidic? (Which has the lowest pKa?)



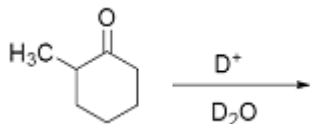
- A
 B
 C
 D
 E

Question 81 points [Save](#)Choose order that has the following compounds correctly arranged with respect to increasing rate of reaction with LiAlH_4 (most reactive compound on the right).

- i < ii < iii
 i < iii < ii
 ii < i < iii
 ii < iii < i
 iii < ii < i

Question 91 points [Save](#)

Predict the formula of the major product of the following reaction.



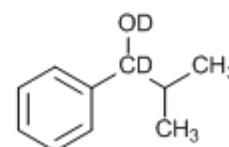
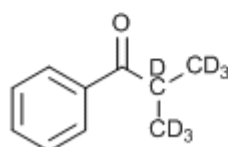
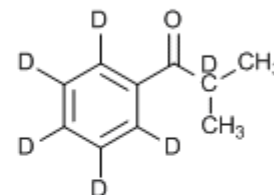
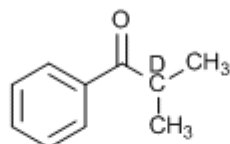
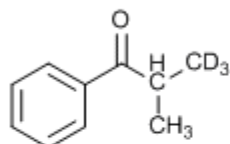
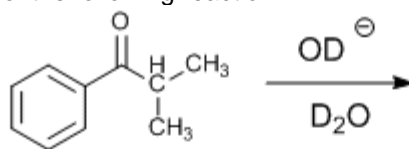
- $\text{C}_7\text{D}_5\text{H}_{11}\text{O}$
 $\text{C}_7\text{D}_2\text{H}_{10}\text{O}$
 $\text{C}_7\text{D}_3\text{H}_9\text{O}$
 $\text{C}_7\text{D}_5\text{H}_7\text{O}$

C₇D₉H₃O

Question 10

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Predict the major product of the following reaction.



- A
 B
 C
 D
 E

Save

Submit