

Organic Chemistry II

CONTENT

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CEM 252-Sec 730 > Week 6

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Quiz 4 August 05, 2020 6:05

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PREVIEW

RESPONSES (36)

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Quiz 4

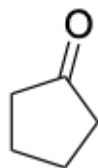
25pts. 20 mins



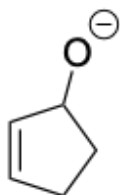
Question 1

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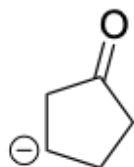
Which of the following is an enolate from the ketone below?



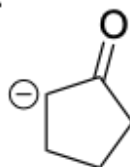
A.



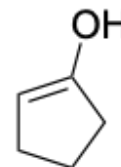
B.



C.



D.



A

A

B B

C C



D D



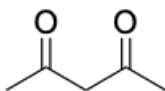
Question 2

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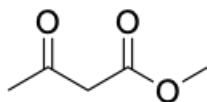
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Which of the following has the most acidic α -hydrogen?

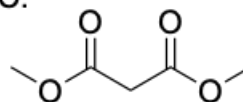
A.



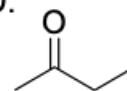
B.



C.



D.



A A



B B

C C

D D

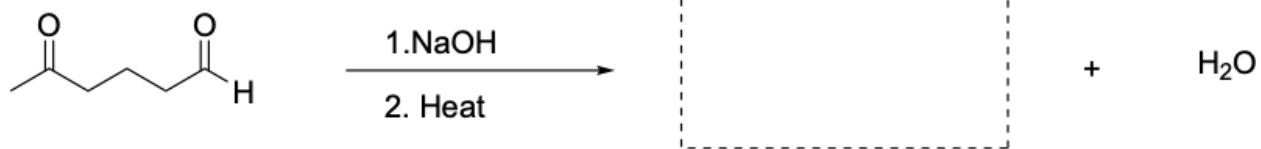


Question 3

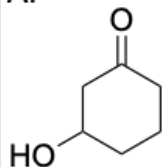
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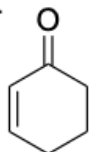
From the Aldol condensation below, predict the product of the reaction. (Hint: intramolecular Aldol reaction)



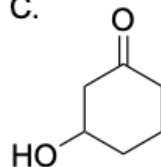
A.



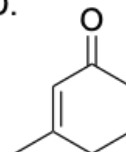
B.



C.



D.



A	A
B	B ✓
C	C
D	D

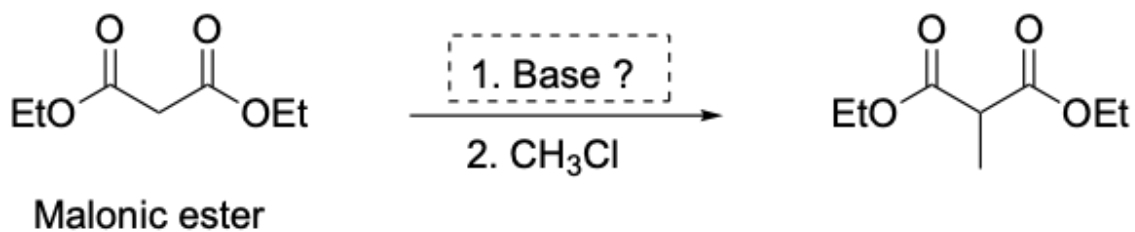


Question 4

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Which of these bases is most recommended for deprotonation of malonic ester in the alkylation reaction below?



A. KOMe

B. KOEt

C. KOBu

D. KOPr

A	A
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B	B	✓
---	---	---

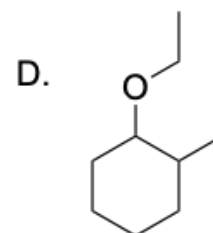
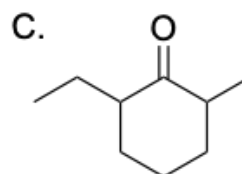
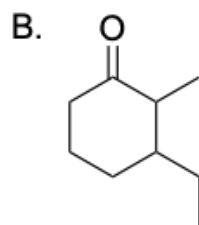
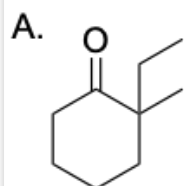
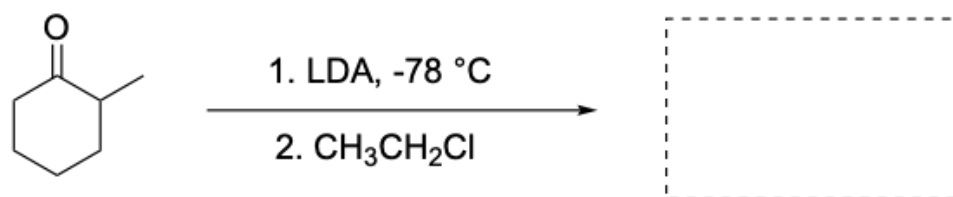
C	C
---	---

D	D
---	---

Question 5

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What is the product of the reaction below?



A	A
---	---

B	B
---	---

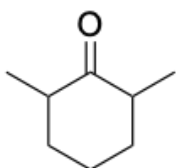
C	C	✓
---	---	---

D	D
---	---

Question 6

[Hide Correct Answer](#) [Show Responses](#)

Which of the following amines would react with the ketone below to form an enamine?



A. $(\text{CH}_3\text{CH}_2)_4\text{N}^+$

B. $(\text{CH}_3\text{CH}_2)_3\text{N}$

C. $(\text{CH}_3\text{CH}_2)\text{NH}_2$

D. $(\text{CH}_3\text{CH}_2)_2\text{NH}$

A	A
B	B
C	C
D	D

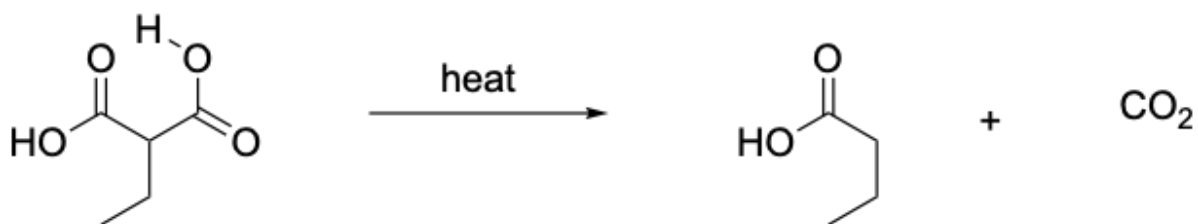


Question 7

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How would you classify the reaction below?



A	dehydrogenation
B	decarbonation
C	decarboxylation

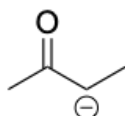
D Deoxygenation

Question 8

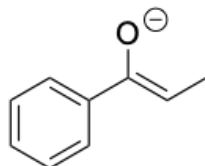
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Which of the following is NOT a nucleophile?

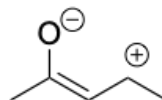
A.



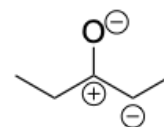
B.



C.



D.



A A

B B

C C



D D

Question 9

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What is your favorite name reaction for this class?

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