Week 3 Assignment 3

The due date for submitting this assignment has passed. Due on 2018-02-14, 23:59 IST.

Submitted assignment

Each question has provided with four alternative answers, only one answer is correct. Pick the correct answers in each case.

1) 1. Cyclopentanone on heating with conc. NaOH affords which of the following product?

(a) ![Option A](image1.png)

(b) ![Option B](image2.png)

(c) ![Option C](image3.png)

(d) None

No, the answer is incorrect.

Score: 0

Accepted Answers:

(a) ![Correct Option](image4.png)
2) The major product obtained in the following reaction is

![Reaction Diagram]

(a) 

(b) 

(c) 

(d) None

No, the answer is incorrect. 
Score: 0 
Accepted Answers:

(c)

3) The following transformation can be achieved by which of the reagent sequences?

![Transformation Diagram]

A. \( \text{H}_2 / \text{Lindlar’s catalyst; BH}_3 / \text{NaOH-H}_2\text{O}_2 \)

B. \( \text{Ni/H}_2 \)

C. \( \text{H}_2 / \text{Pt} \)

D. \( \text{H}_2 / \text{Pd} \)

No, the answer is incorrect. 
Score: 0 
Accepted Answers:
4) The product in the following reaction will be

\[
\text{Br} \quad \xrightarrow{\text{Mg/ether, HCHO, H}_2\text{O}} \quad ?
\]

(a) tBuCHO
(b) tBuCH₂OH
(c) tBuCO₂H
(d) None

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b)

5) The product in the following reaction is

\[
\text{a. mCPBA} \quad \xrightarrow{\text{b. NaOH}}
\]

(a) tBuOAc
(b) tBuOH
(c) tBuOH
(d) None

No, the answer is incorrect.
Score: 0
Accepted Answers:
(b)
6) The following transformation can be achieved by using which of the reagent?  

- A. H$_2$O$_2$  
- B. mCPBA  
- C. H$_2$O$_2$/NaOH  
- D. None  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
C. H$_2$O$_2$/NaOH

7) The following aldol product can be obtained from which two carbonyl compounds?  

- A. 2 mole of Dibenzyl ketone  
- B. 1 mole of dibenzyl ketone and 1 mole of acetone  
- C. 1mole of dibenzylketone and 1 mole of benzil  
- D. 2 mole of benzophenone  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
C. 1mole of dibenzylketone and 1 mole of benzil

8) The following transformations can be achieved by using which of the reagent system?  

- A) NaBH$_4$  
- B) LiAlH$_4$  
- C) NaBH$_4$/CeCl$_3$  
- D) BH$_3$.THF  

No, the answer is incorrect.  
Score: 0  
Accepted Answers:  
C) NaBH$_4$/CeCl$_3$

9) The following transformation will yield which product
10) Predict the final product in the following reaction

No, the answer is incorrect.
Score: 0
Accepted Answers:

(c)