

# Unit 9 - Week 6: ORGANIC TRANSFORMATIONS-USING NON-TRANSITION METALS PART-II

## Course outline

How to access the portal?

Week 0: Prerequisites

WEEK 1: OXIDIZING AGENT IN ORGANIC TRANSFORMATION PART-I

Week 2 : OXIDIZING AGENT IN ORGANIC TRANSFORMATION PART-II

Week 3 : REDUCING AGENT IN ORGANIC TRANSFORMATION PART-I

Week 4 : REDUCING AGENT IN ORGANIC TRANSFORMATION PART-II

Week 5: ORGANIC TRANSFORMATIONS-USING NON-TRANSITION METALS PART-I

Live Session-1

Week 6: ORGANIC TRANSFORMATIONS-USING NON-TRANSITION METALS PART-II

Lec 1: B and Al BASED REAGENTS IN ORGANIC SYNTHESIS

Lec 2: S BASED REAGENTS IN ORGANIC SYNTHESIS

Lec 3: P BASED REAGENTS IN ORGANIC SYNTHESIS

Quiz : Assignment 6

Feedback form

Week 7: Organic Transformations-Using Non-Transition Metals Part-III

Week 8: ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-I

week 9: ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-II

Live Session-2

Week 10 : ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-III

Week 11: ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-IV

WEEK 12 : ORGANIC TRANSFORMATIONS-USING LANTHANIDES REAGENTS

Live Session-3

## Assignment 6

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2019-09-11, 23:59 IST.

1) Predict the product with appropriate deuterium labeling:

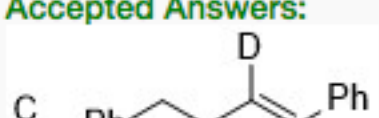
2 points



- A Ph-CH2-CH=CH-CH2-Ph (D at C2)  
 B Ph-CH2-CH=CH-CH2-Ph (D at C3)  
 C Ph-CH2-CH=CH-CH2-Ph (D at C1)  
 D Ph-CH2-CH=CH-CH2-Ph (D at C4)

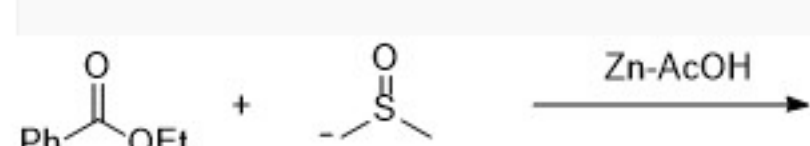
No, the answer is incorrect. Score: 0

Accepted Answers:



2) Predict the product: (Hint: this reaction proceed via an intermediate.)

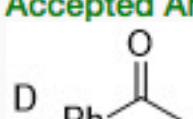
2 points



- A Ph-CO-CH2-CO-CH3  
 B Ph-CO-CH=CH2  
 C Ph-CH(OH)-CH3  
 D Ph-CO-CH3

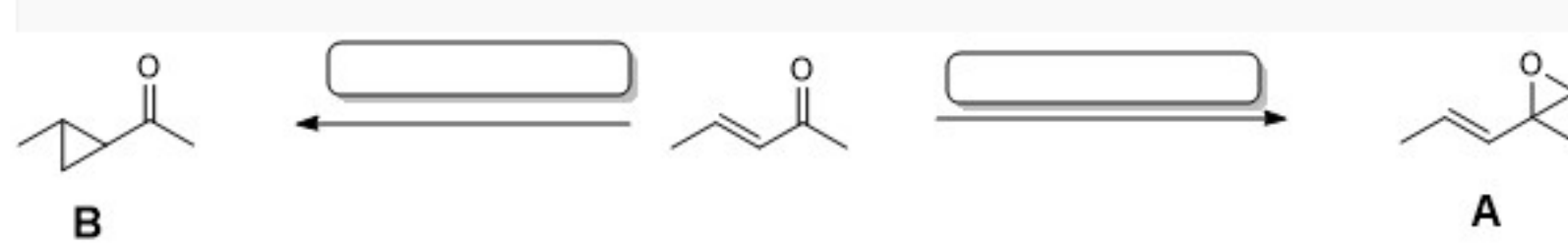
No, the answer is incorrect. Score: 0

Accepted Answers:



3) Find out the appropriate reagent for the transformation A and B, respectively.

2 points



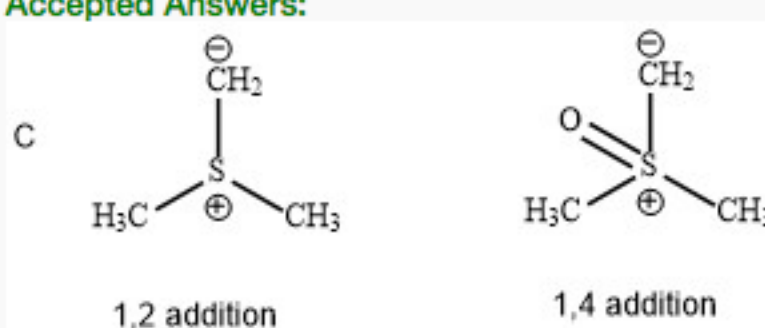
B

A

- A Ph-CO-CH2-CH3 (1,4 addition)     Ph-CO-CH2-CH3 (1,2 addition)  
 B Ph-CO-CH2-CH3 (1,4 addition)     Ph-CO-CH2-CH3 (1,2 addition)  
 C Ph-CO-CH2-CH3 (1,2 addition)     Ph-CO-CH2-CH3 (1,4 addition)  
 D Ph-CO-CH2-CH3 (1,2 addition)     Ph-CO-CH2-CH3 (1,4 addition)

No, the answer is incorrect. Score: 0

Accepted Answers:



4) In Corey-Winter olefination, Findout which points are incorrect?

1 point

- (i) 1,2 diols gives alkenes.  
 (ii) At first a cyclic thiocarbonate intermediate formed.  
 (iii) That intermediate undergoes reaction with phosphorus reagent via Anti elimination gives alkenes.  
 (iv) Reaction is not stereospecific.

- A. Only (ii) and (iii)  
 B. Only (i) and (iv)  
 C. Only (iii) and (iv)  
 D. All of the above

No, the answer is incorrect. Score: 0

Accepted Answers:

C. Only (iii) and (iv)

5) What is the name reaction of the following transformation:

1 point



- A. Arbuzov Reaction  
 B. Appel Reaction  
 C. Atherton-Todd reaction  
 D. Mitsunobu Reaction

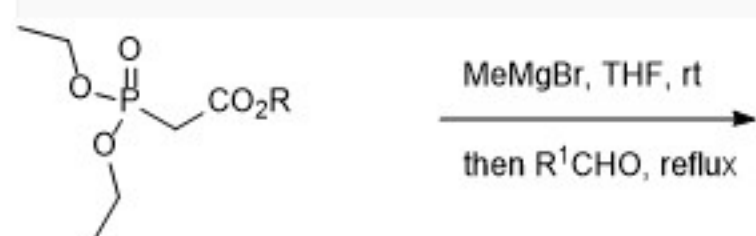
No, the answer is incorrect. Score: 0

Accepted Answers:

D. Mitsunobu Reaction

6) Predict the product of the following reaction:

2 points



- A Ph-CO-CH(R^1)-CH2-CO2R  
 B Ph-CO-CH=CH-CO2R  
 C Ph-CO-CH2-CH2-CO2R  
 D Ph-CO-CH(R^1)-CH=CH-CO2R

No, the answer is incorrect. Score: 0

Accepted Answers:

