

Unit 2 - Week 0

Course outline

How does an NPTEL online course work?

Week 0

Quiz : Assignment 0

Week 1

Week 2

Week 3

Week 4

Text Transcripts


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Detailed Solution

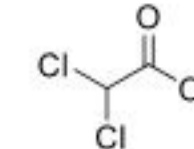
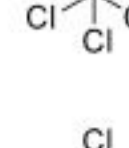
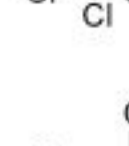

Assignment 0

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

Due on 2020-02-24, 23:59 IST.

1) 

Find out the substrate S, which on heating provides dichloro carbene

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- 

1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers: d

2) Number of unpaired electron(s) in triplet carbene is/are?

1 point

- a. 3
b. 2
c. 1
d. 0

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers: b

3) Amongst the following, which one is singlet carbene?

1 point

- a. $:\text{CH}_2$
b. $:\text{CHPh}$
c. $:\text{CHCl}$
d. $:\text{CPh}_2$

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers: d

4) The correct bond angle in triplet carbene is

1 point

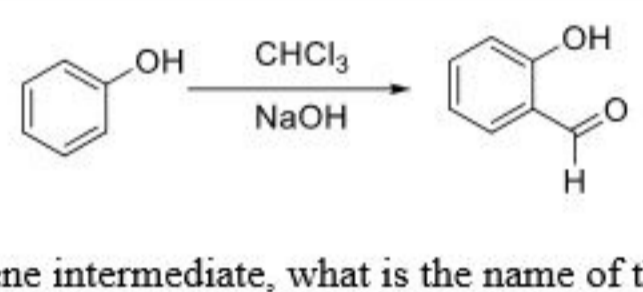
- a. $80-100^\circ$
b. $100-110^\circ$
c. $160-180^\circ$
d. $130-150^\circ$

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers: d

5) 

This reaction goes via a carbene intermediate, what is the name of this reaction?

- Vilsmeier-Haack Reaction
- Gattermann Koch
- Riemer-Tiemann reaction
- Jones Oxidation reaction

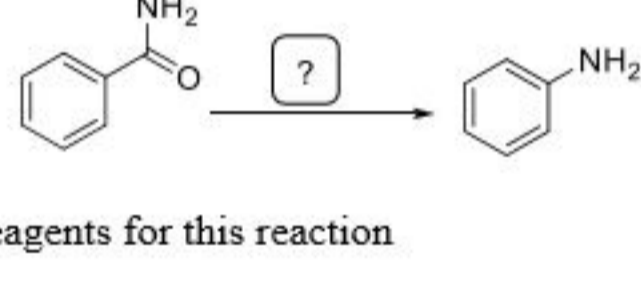
1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers: c

6) 

Find out the appropriate reagents for this reaction

- NaOH, reflux
- 1N HCl, reflux
- Br₂ water, reflux
- NaOH, Br₂

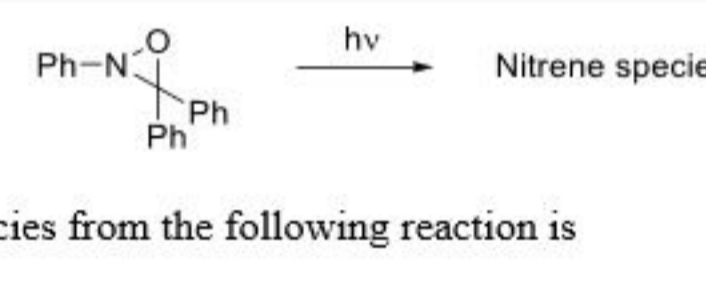
1 point

- a
 b
 c
 d

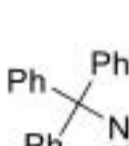
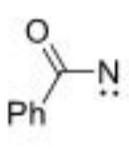
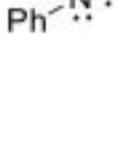
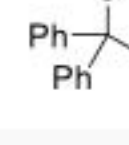
No, the answer is incorrect.

Score: 0

Accepted Answers: d

7) 

The generated nitrene species from the following reaction is

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- 
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- 

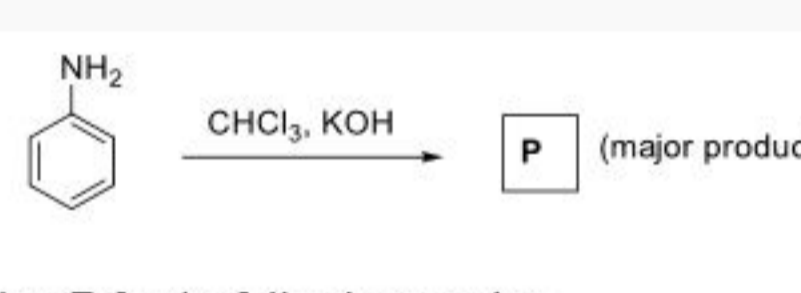
1 point

- a
 b
 c
 d

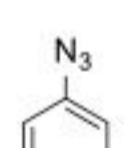
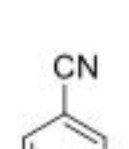
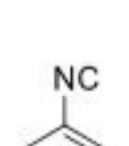
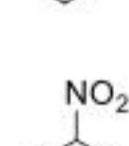
No, the answer is incorrect.

Score: 0

Accepted Answers: c

8) 

Find out the major product P for the following reaction

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- 
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- 

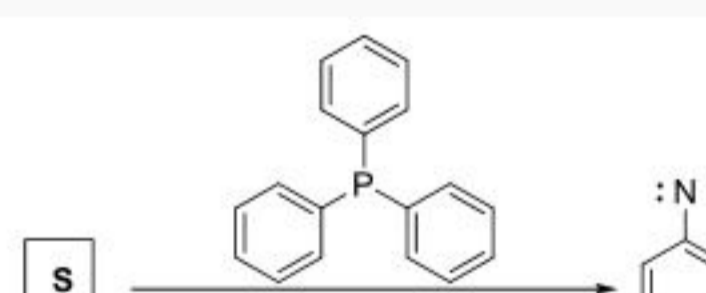
1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers: c

9) 

The starting material S for the following reaction is

- Aniline
- Pyridine
- Nitrobenzene
- Benzylamine

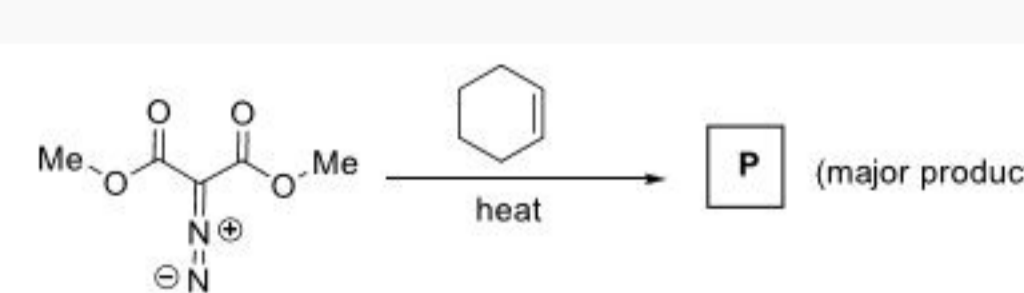
1 point

- a
 b
 c
 d

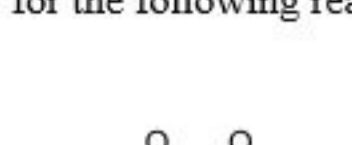
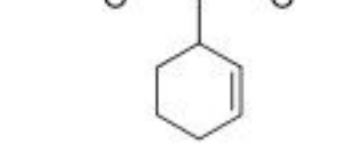
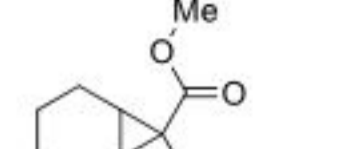
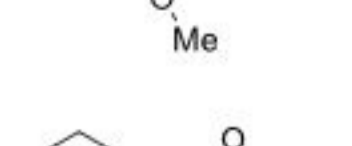
No, the answer is incorrect.

Score: 0

Accepted Answers: c

10) 

The major product P for the following reaction is

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- 
- 
- 

1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers: b