

Unit 3 - Week 1

Course outline
How does an NPTEL online course work?
Week 0
Week 1
<ul style="list-style-type: none"> Lecture 1 : Introduction Lecture 2 : Structure and Geometry of Carbenes Lecture 3 : Structure and Geometry of Carbenes (Contd.) Lecture 4 : Generation of Carbene Lecture 5 : Generation of Carbenes (Contd.)
<ul style="list-style-type: none"> Quiz : Assignment 1 Week 1 Feedback form
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Detailed Solution

Assignment 1

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

Due on 2020-03-04, 23:59 IST.

1) Correct electronic configuration for triplet carbene is 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

2) Which spectroscopic method is necessary to differentiate between singlet and triplet carbene? 1 point

- a. NMR
b. ESR
c. IR
d. GCMS

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

3) The major product P for the following reaction is 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

4) In the following reaction the major product P is 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

5) Here the possible carbene intermediate I is 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

6) Find out the carbene intermediate [I] in the above photo transformation 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

7) Here the starting material S is 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

8) Among the following the most nucleophilic carbene is 1 point

- a. $-\text{CCl}_2$
b. $-\text{C}(\text{OMe})_2$
c. $-\text{C}(\text{OMe})\text{F}$
d. $-\text{CClF}$

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

9) In the following reaction, the major product P is 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

10) In the following reaction, major product P is. 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

11) In the following reaction, major product P is 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

12) Here the major product P is 1 point

- a
 b
 c
 d

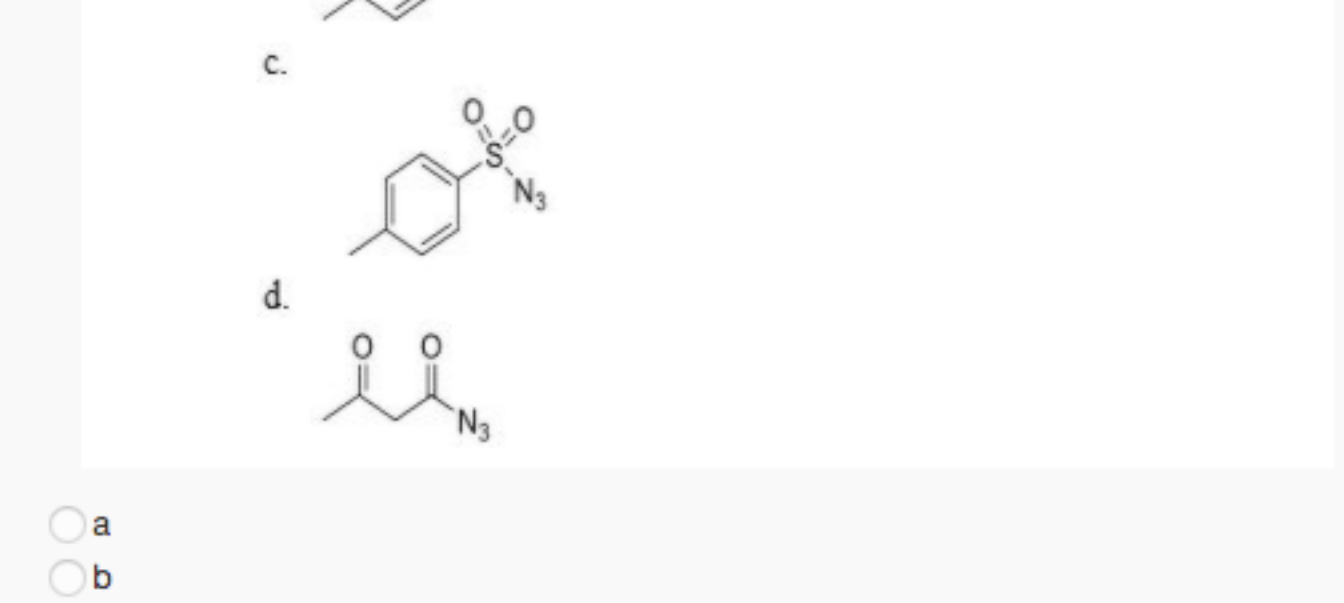
No, the answer is incorrect.

Score: 0

Accepted Answers:

c

13) In the given reaction, the following products M & N are formed. Here compound N is 1 point



- a.
b.
c.
d.

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

14) Among the following carbenes, most stable carbene is 1 point

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

15) Which of these following reaction(s) does not proceed through a carbene intermediate? 1 point

- a. Reimer-Tiemann reaction
b. Wolff rearrangement
c. Simmons-Smith reaction
d. Curtius Rearrangement

- a
 b
 c
 d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d