Assignment_2_Week-2

The due date for submitting this assignment has passed. Due on 2019-02-13, 23:59 IST.
As per our records you have not submitted this assignment.

1) During the migratory insertion, the formal oxidation state of metal is increased by: 1 point
   - +1
   - +2
   - -2
   - No change

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

2) “The stereochemistry will be lost in the process of radical oxidative addition path”- State whether the statement is true or false.
   - True
   - False

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

3) The stereochemistry of the product upon reductive elimination will be-

   Retention of configuration
   Inversion of configuration
   Racemization
   Unpredictable

   No, the answer is incorrect.
   Score: 0
5) The following process is known as

- Oxidative addition
- Migratory insertion
- Reductive elimination
- α-Hydride elimination

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

6) “PPh₃ ligand has a faster reductive elimination rate compared to PPh₂Me” - State whether the statement is true or false.

- True
- False

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

7) Write down the correct product of the following reaction:

No, the answer is incorrect.
Score: 0
Accepted Answers:
8) Choose the correct α-migratory insertion product from the following complex:

\[ \text{L}_2 \text{M} - \text{CS} \]

- \( \text{L}_2 \text{M} - \text{CSCH}_3 \)
- \( \text{L}_2 \text{M} - \text{C}_3 \text{S} \)
- \( \text{H}_2 \text{C} - \text{CS} \)
- \( \text{H}_2 \text{C} - \text{C}_3 \text{S} \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
\( \text{L}_2 \text{M} - \text{CH}_3 \)
\( \text{L}_2 \text{M} - \text{C}_3 \text{S} \)

9) Predict the most stable product of the following reaction:

\[ \text{R} \text{Me}_2 \stackrel{\text{Pd(PPh}_3\text{)}_2}{\longrightarrow} ? \]

- \( \text{Me}_2 \text{H} \)
- \( \text{Me} \text{H} \)

No, the answer is incorrect.
Score: 0
Accepted Answers:
\( \text{Me}_2 \text{H} \)

10) The following reaction path is known as

The reaction path is known as Organometallic Chemistry - Unit 3 - Week-2
https://onlinecourses.nptel.ac.in/noc19_cy03/unit3/
Oxidative addition
Reductive Elimination
Migratory Insertion
α-Elimination

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