Assignment-10  Advanced Transition Metal Organometallic Chemistry

The due date for submitting this assignment has passed. As per our records, you have not submitted this assignment. Due on 2019-04-10, 23:59 IST.

1) Palladium catalysed amination reaction of arenes is known as
   - Negishi coupling.
   - Kumada coupling
   - Buchwald-Hartwig coupling
   - Hiyama coupling

   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Buchwald-Hartwig coupling

2) The following reaction is an example of
   - hydrocyanation
   - Suzuki coupling
   - hydroamination
   - aryl amination

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

3) Hydroamination reaction of alkenes or alkynes is catalysed by
   - Mg
   - Hf
   - Ti
   - Zr

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

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4) Hydroamination reaction involves

- an olefin and an amine
- an acid chloride and an amine
- an aldehyde and an amine
- an alkyne and an amine

No, the answer is incorrect.
Score: 0
Accepted Answers:
- an olefin and an amine
- an alkyne and an amine

5) The [Cp₂Ti(NHR)₂] complex catalyses the hydroamination reaction of alkyne through a

- [2+2] cycloaddition reaction
- [4+2] cycloaddition reaction
- [1+3] dipolar addition
- [2+1] cycloaddition reaction

No, the answer is incorrect.
Score: 0
Accepted Answers:
- [2+2] cycloaddition reaction

6) Predict the main product of the reaction

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

7) Predict the product of the reaction

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

8) Appropriate reagent for the hydrosilation reaction is

- trimethylsilane
- tetramethylsilane
- trimethylsilyl chloride
- trimethylsilyl cyanide
9) The hydrosilylation reaction is catalysed by

- Pt
- Ni
- Mo
- Si

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

10) The Wacker reaction produces

- an acid
- an aldehyde
- an alkane
- an alcohol

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