Assessment 4: Transition Metal Organometallic Chemistry: Principles To Applications

The due date for submitting this assignment has passed. **Due on 2018-02-21, 23:59 IST.**

Submitted assignment

1) The reaction of dihydrogen with Wilkinson's catalyst to form a six coordinate complex is

- [ ] b-elimination
- [ ] reductive elimination
- [ ] ligand isomerization
- [ ] oxidative addition

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

2) The oxidation state of the metal atom in the following complex is

- [ ] −1
- [ ] +1
- [ ] −3
3) The agostic interaction is,

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

4) The consequence(s) of agostic interaction in s-alkyl complexes is(are),

No, the answer is incorrect.
Score: 0
Accepted Answers:
reversible \( a \)-elimination process
\( b \)-elimination

5) The presence of agostic interaction is best determined by,

No, the answer is incorrect.
Score: 0
Accepted Answers:
6) In the reductive elimination step, an electron-rich late transition metal would, 

- facilitate a nucleophilic attack
- favor the elimination reaction
- hinder the elimination reaction
- facilitate an electrophilic attack

*No, the answer is incorrect.*

*Score: 0*

*Accepted Answers:*

- hinder the elimination reaction

7) Predict the product of the reaction

![Chemical structure diagram](image-url)
8) Predict the product of the reaction,
No, the answer is incorrect.
Score: 0

9) Predict the product of the reaction,

\[ \text{Ir} \quad \xrightarrow{\text{C}_6\text{F}_{12}, \text{hv}} \quad \text{CH}_4, \text{10 bar} \]
No, the answer is incorrect.
Score: 0

Accepted Answers:

Predict the product of the reaction,
No, the answer is incorrect.
Score: 0
Accepted Answers: