Unit 5 - Week-4

Assignment_4_Week_4_Org_Met

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

1) Statement I: The major drawback of Schrock-Osborne catalyst is the presence of sacrificial olefin.
   Statement II: Dihydride hydrogenation catalysts cannot be used for synthesizing artificial amino acids.
   Both I and II are true
   Both I and II are false
   I is true but II is false
   I is false but II is true
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Both I and II are false

2) What is the final product of the following reaction?

   ![Reaction Diagram]

   -
   -
   -
   -

   1 point

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3) In asymmetric hydrogenation, chiral aliphatic diamine cannot be used in place of phosphine because

- Nitrogen is more electronegative
- Amines are poor co-ordinating in nature
- Inversion barrier for nitrogen is very low
- Nitrogen cannot bind the substrate efficiently

No, the answer is incorrect.
Score: 0
Accepted Answers:
Inversion barrier for nitrogen is very low

4) Which one is the Wilkinson’s catalyst?

- Square planar of (PPh₃)₂RhCl
- Tetrahedral of (PPh₃)₂RhCl₂
- Square planar of (PPh₃)₂RhCl₂
- Tetrahedral of (PPh₃)₃RhCl

No, the answer is incorrect.
Score: 0
Accepted Answers:
Square planar of (PPh₃)₃RhCl

5) Which statement is wrong for Rhodium-PPh₃ hydrogenation catalysts?

- Terminal alkynes are hydrogenated more rapidly than terminal alkenes
- Conjugated dienes are reduced more slowly than isolated alkenes
- Internal and branched alkenes undergo hydrogenation more rapidly than terminal ones
- Polar functional group containing alkenes are hydrogenated more rapidly than unsubstituted alkenes

No, the answer is incorrect.
Score: 0
Accepted Answers:
Internal and branched alkenes undergo hydrogenation more rapidly than terminal ones

6) What is the product formation in the following reaction?

No, the answer is incorrect.
Score: 0
Accepted Answers:
7) “Ru(H)Cl(PPh3)3 is a monohydride hydrogenating catalyst” State whether true or false
   - True
   - False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: True

8) In the below hydrocyanation reaction generally which metal catalyst has been used?
   - Pd
   - Pt
   - Ni
   - Rh
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: Ni

9) In presence of what, the compounds undergo catalytic hydrogenation?
   - Nickel
   - Platinum
   - Palladium
   - All of the mentioned
   No, the answer is incorrect.
   Score: 0
   Accepted Answers: All of the mentioned

10) Predict the product

   No, the answer is incorrect.
   Score: 0