Unit 15 - Week 11: ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-IV

Course outline

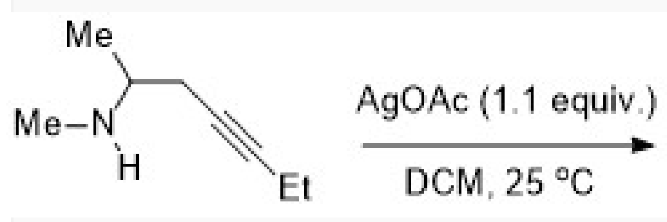
- How to access the portal?
- Week 0: Prerequisites
- WEEK 1: OXIDIZING AGENT IN ORGANIC TRANSFORMATION PART-I
- Week 2 : OXIDIZING AGENT IN ORGANIC TRANSFORMATION PART-II
- Week 3 : REDUCING AGENT IN ORGANIC TRANSFORMATION PART-I
- Week 4 : REDUCING AGENT IN ORGANIC TRANSFORMATION PART-II
- Week 5: ORGANIC TRANSFORMATIONS-USING NON-TRANSITION METALS PART-I
- Live Session-1
- Week 6: ORGANIC TRANSFORMATIONS-USING NON-TRANSITION METALS PART-II
- Week 7: Organic Transformations-Using Non-Transition Metals Part-III
- Week 8: ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-I
- week 9: ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-II
- Live Session-2
- Week 10 : ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-III
- Week 11: ORGANIC TRANSFORMATIONS-USING TRANSITION METALS PART-IV
  - ○ Lec 1: Ag and Rh BASED REAGENTS IN ORGANIC SYNTHESIS
  - ○ Lec 2: Ni, Pt and Ir BASED REAGENTS IN ORGANIC SYNTHESIS
  - ○ **Quiz : Assignment -11**
  - ○ Feedback form
- WEEK 12 : ORGANIC TRANSFORMATIONS-USING LANTHANIDES REAGENTS
- Live Session-3

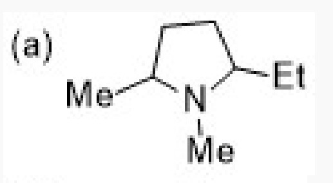
Assignment -11

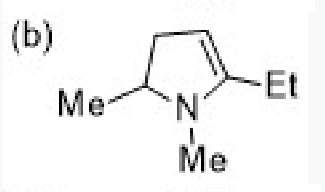
The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

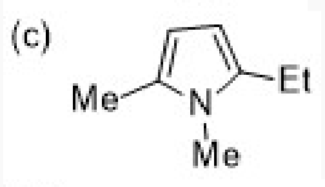
Due on 2019-10-16, 23:59 IST.

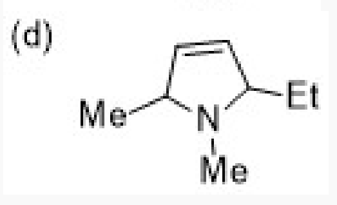
1) Predict the product of the following reaction: ***2 points***



○ 

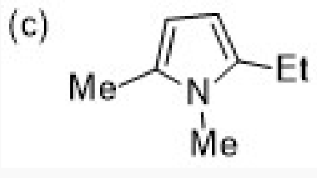
○ 

○ 

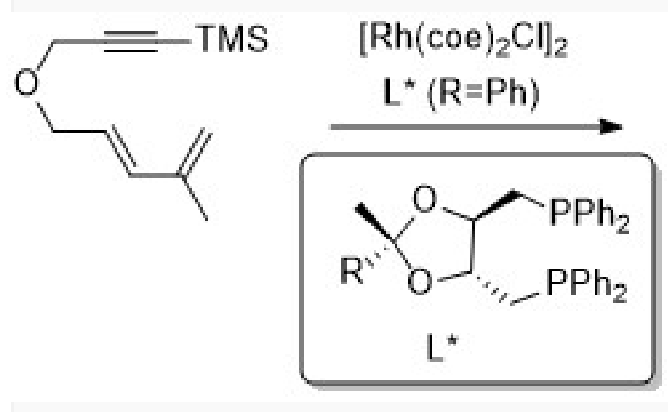
○ 

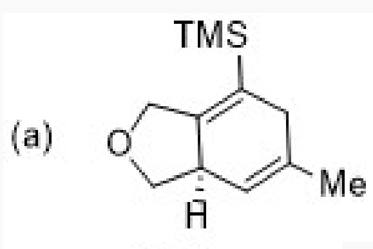
No, the answer is incorrect.
Score: 0

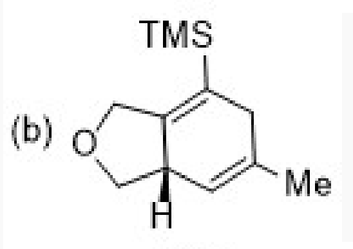
Accepted Answers:

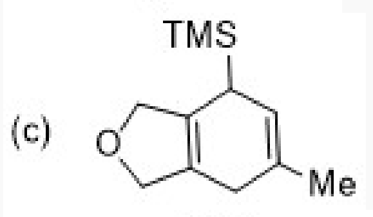


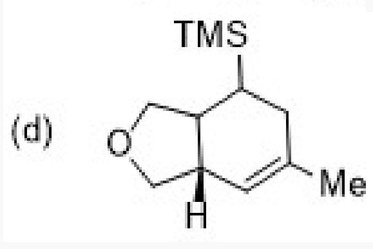
2) Predict the product of the following reaction: ***2 points***



○ 

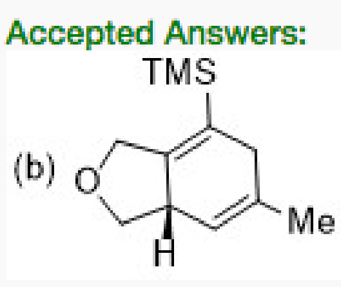
○ 

○ 

○ 

No, the answer is incorrect.
Score: 0

Accepted Answers:



3) For Monsanto process, which statement is/are correct? ***2 points***

(i) The catalytically active species is the anion cis-[Rh(CO)2I2]–

(ii) The first organometallic step is the oxidative addition of methyl iodide to cis-[Rh(CO)2I2]– to form the hexacoordinate species [(CH3)Rh(CO)2I3]–.

(iii) This anion rapidly transforms, via the migration of a methyl group to an adjacent carbonyl ligand, affording the pentacoordinate acetyl complex [(CH3CO)Rh(CO)I3]–.

(iv) This five-coordinate complex then reacts with carbon monoxide to form the six-coordinate dicarbonyl complex, which undergoes reductive elimination to release acetyl iodide (CH3C(O)I).

○ A Only (i) and (iii)
○ B Only (ii) and (iv)
○ C Only (i), (ii) and (iii)
○ D All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
D All of the above

4) Shell Higher Olefins Process (SHOP) consists of 3 steps. ***2 points***

1. Metathesis
2. Oligomerization of ethylene
3. Isomerization of C4-C10 and >C20.

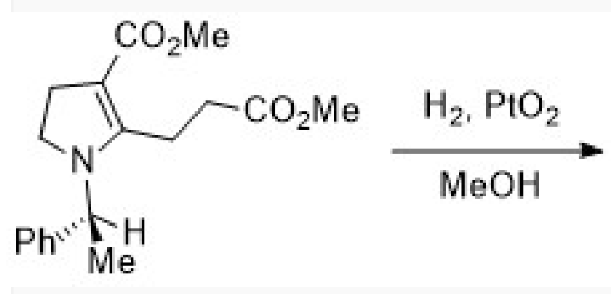
Predict the sequence of steps.

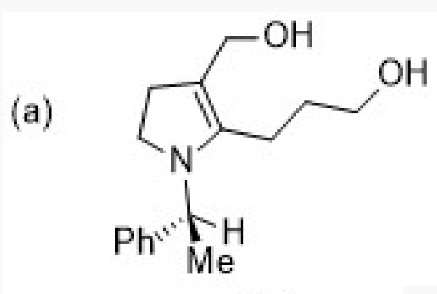
○ (a) 2, 3, 1
○ (b) 1, 3, 2
○ (c) 1, 2, 3
○ (d) 3, 2, 1

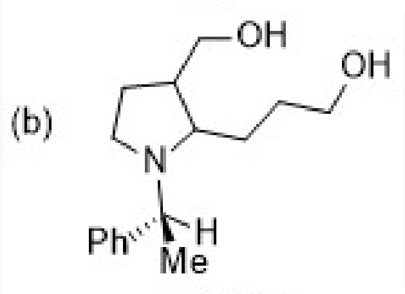
No, the answer is incorrect.
Score: 0

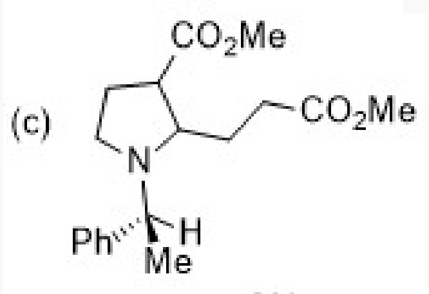
Accepted Answers:
(a) 2, 3, 1

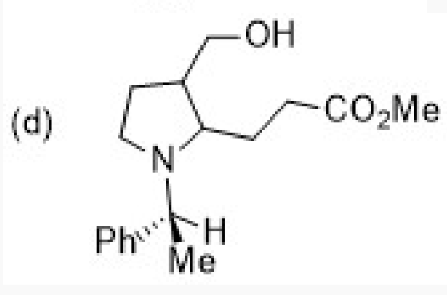
5) Predict the product of the following reaction: ***2 points***



○ 

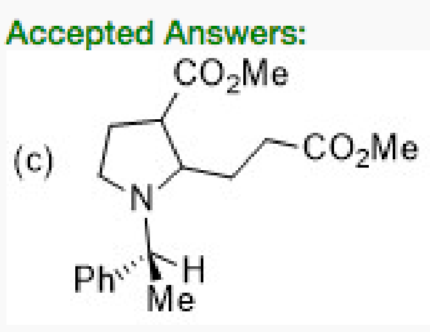
○ 

○ 

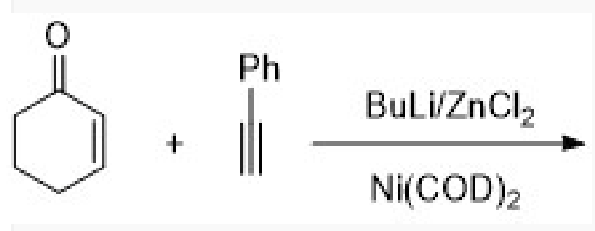
○ 

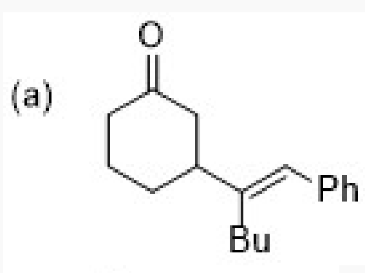
No, the answer is incorrect.
Score: 0

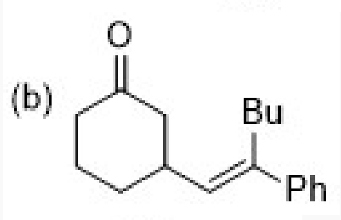
Accepted Answers:

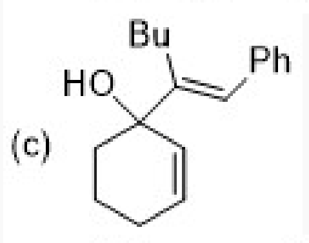


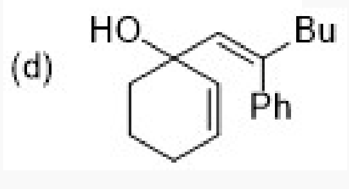
6) Predict the product of the following reaction: ***2 points***



○ 

○ 

○ 

○ 

No, the answer is incorrect.
Score: 0

Accepted Answers: