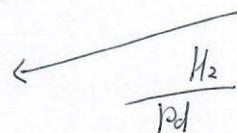
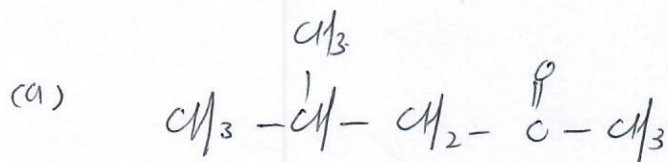
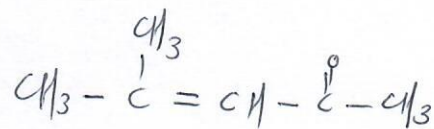
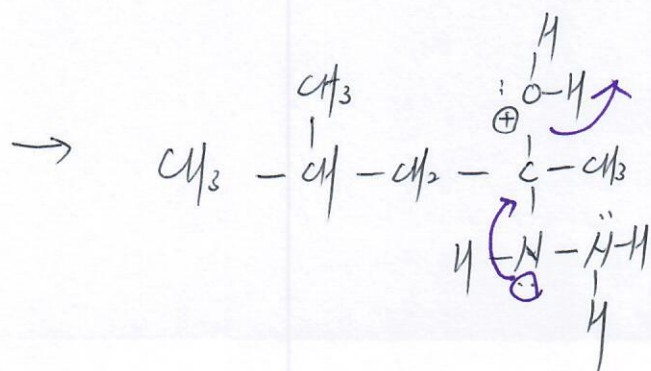
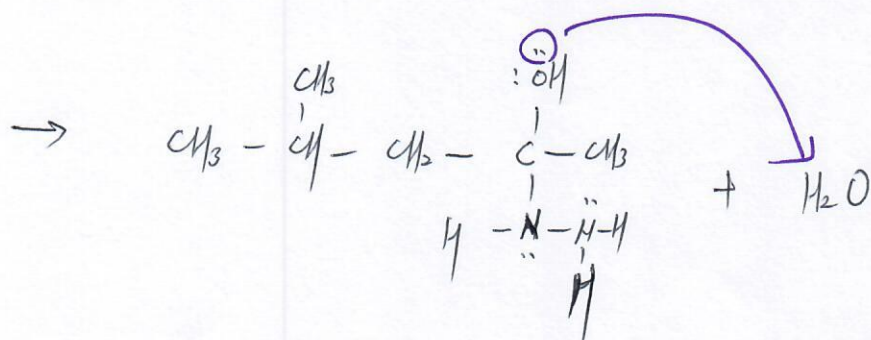
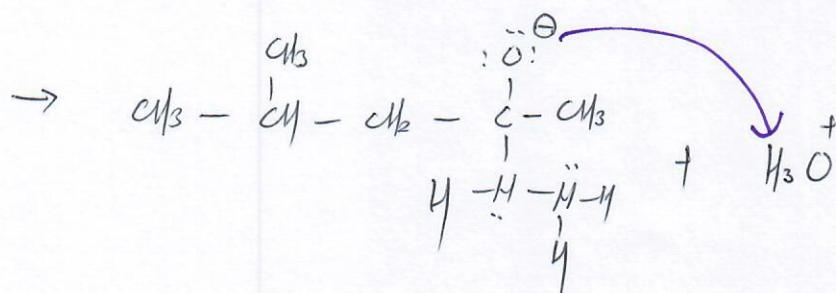
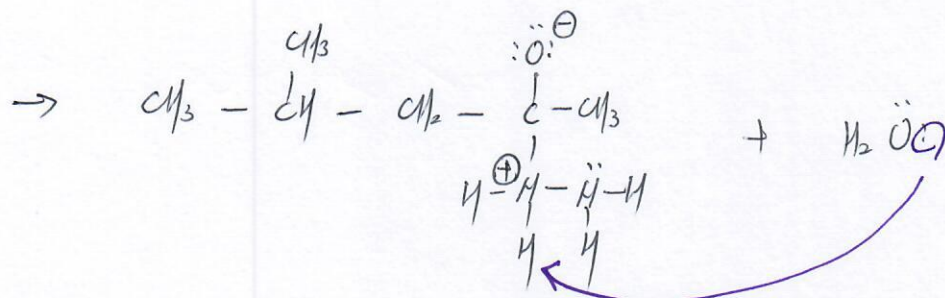
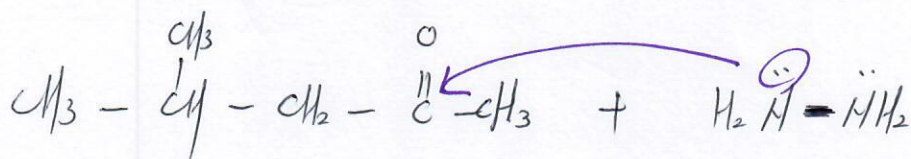


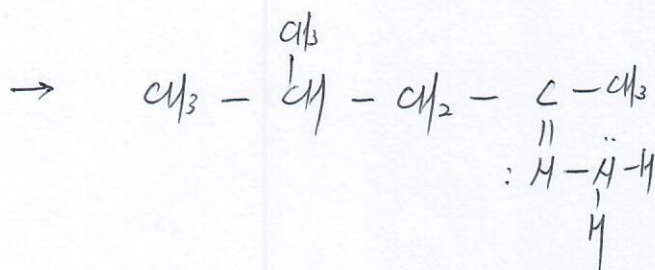
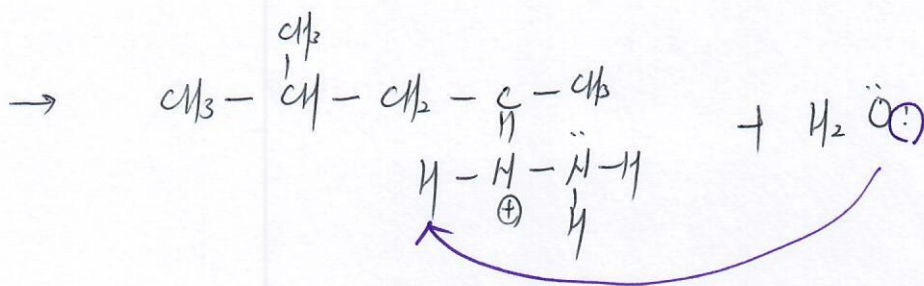
Problem 19-13. -



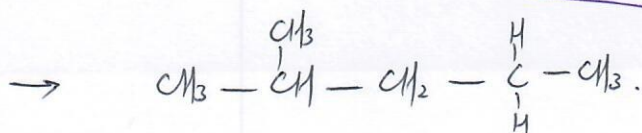
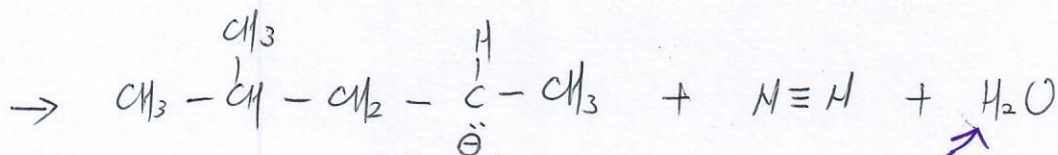
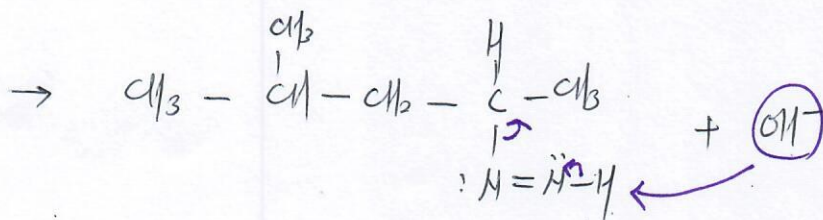
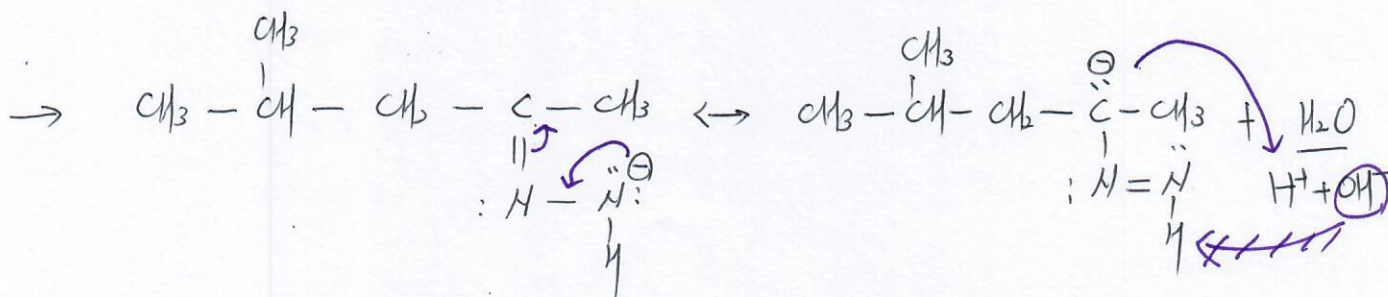
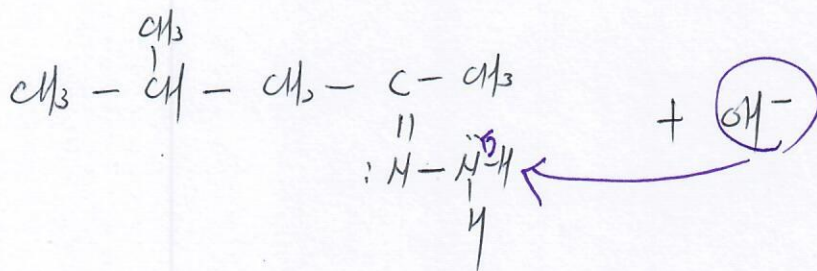
Wolff - Kishner rxn.  $\text{R}_1 - \overset{\text{O}}{\underset{||}{\text{C}}} - \text{R}_2 \rightarrow \text{R}_1 - \text{CH}_2 - \text{R}_2$



problem 19-13-2

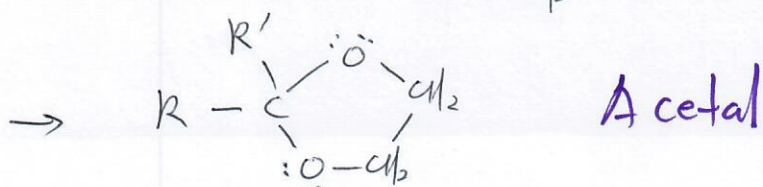
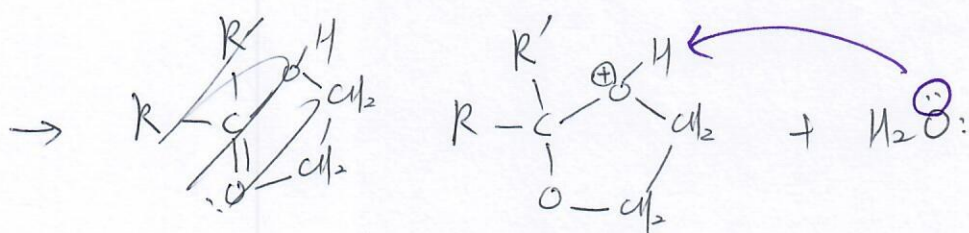
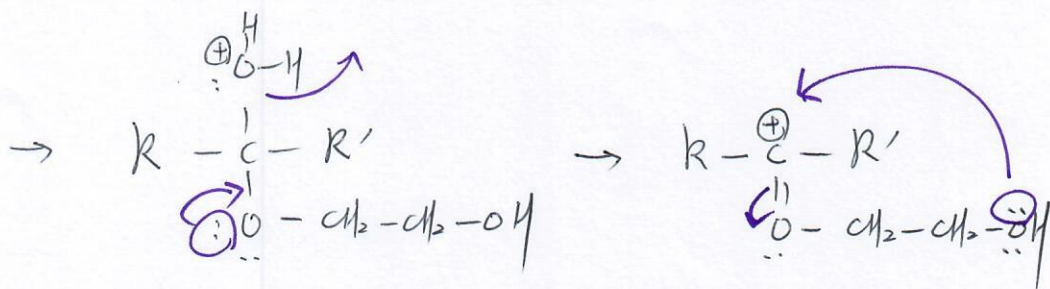
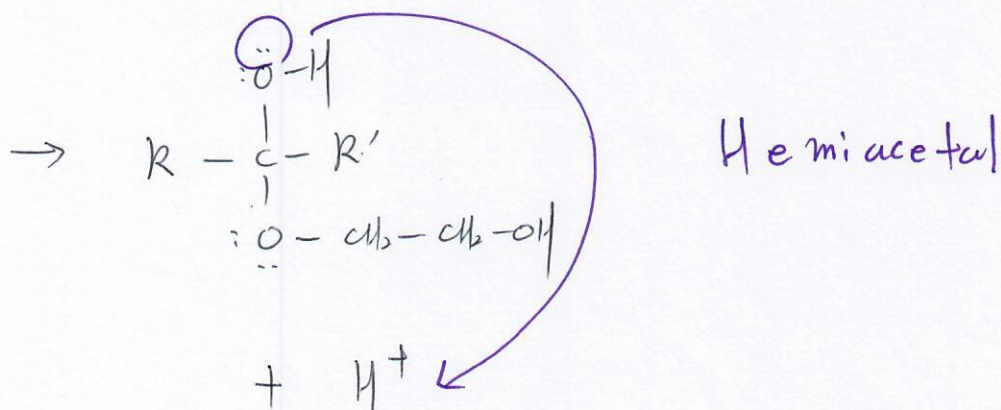
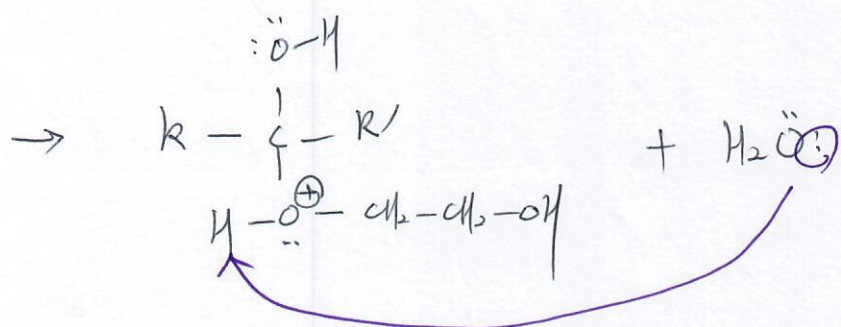
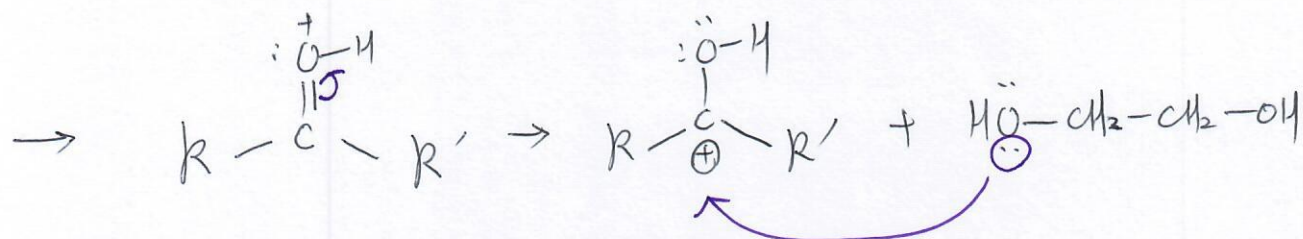
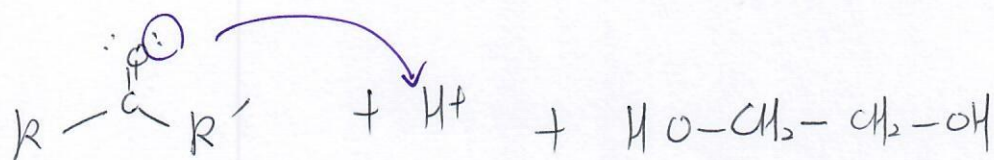


same to imine mechanism.

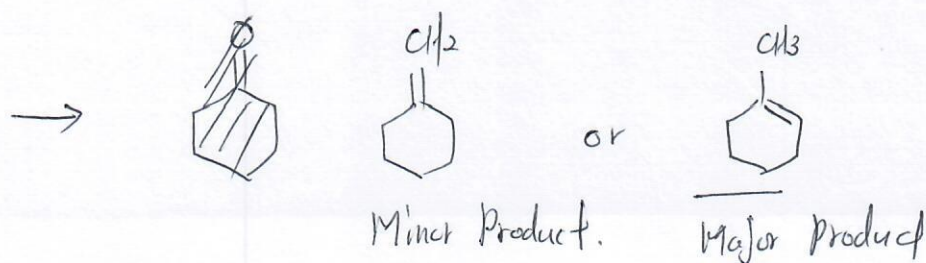
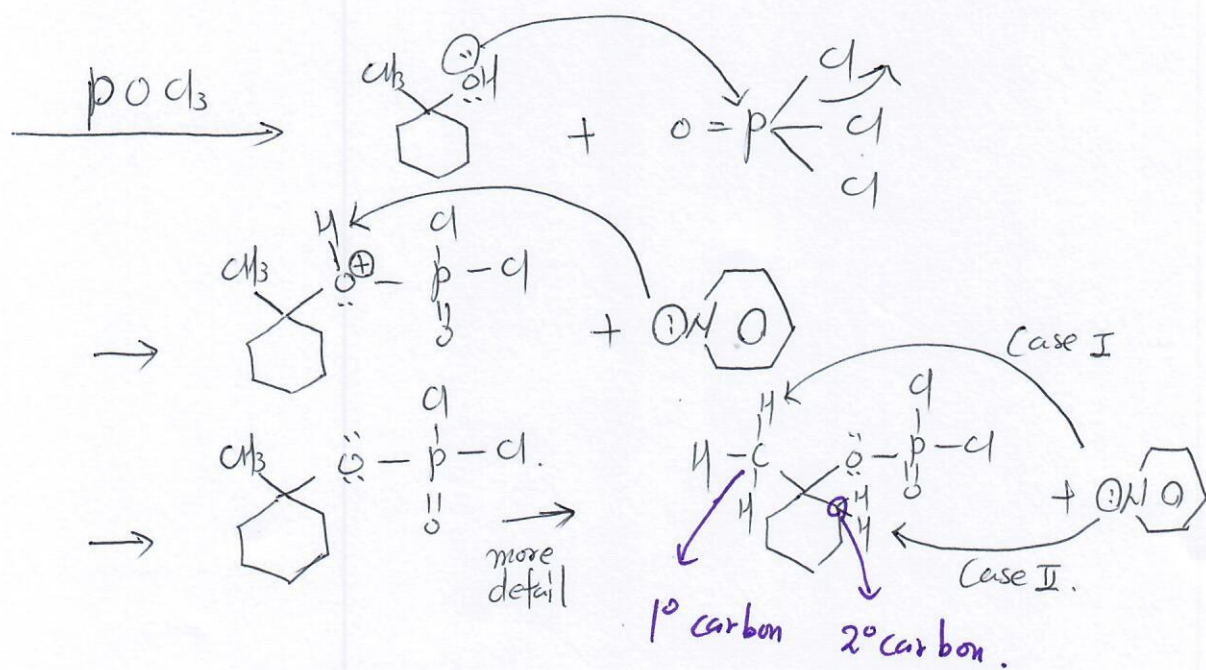
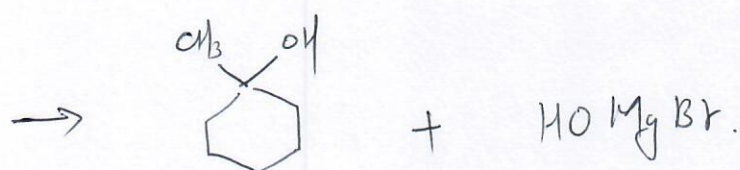
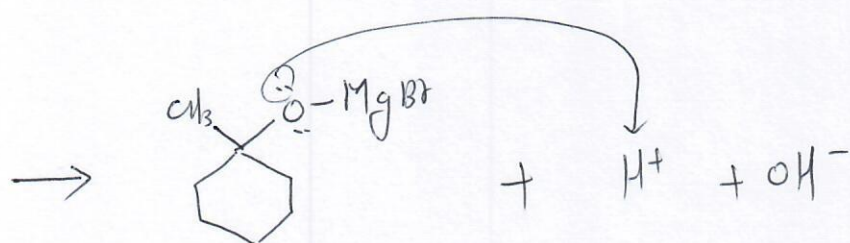
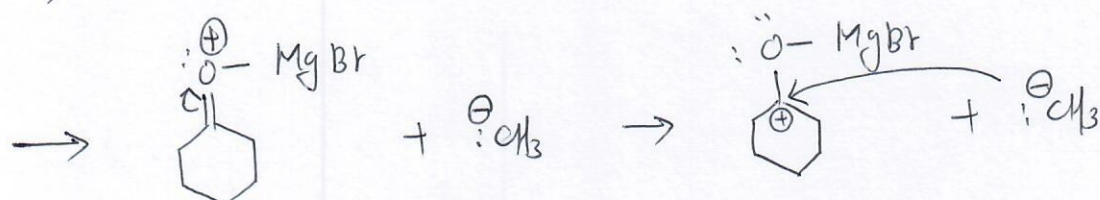
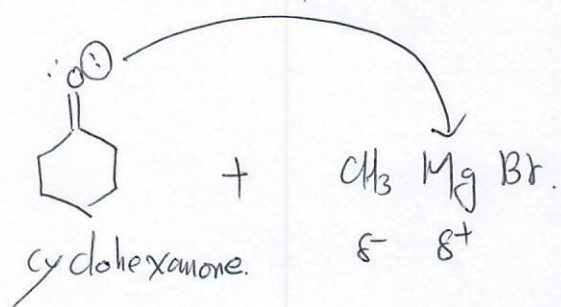




# Problem 19-14



Section 19-11-4

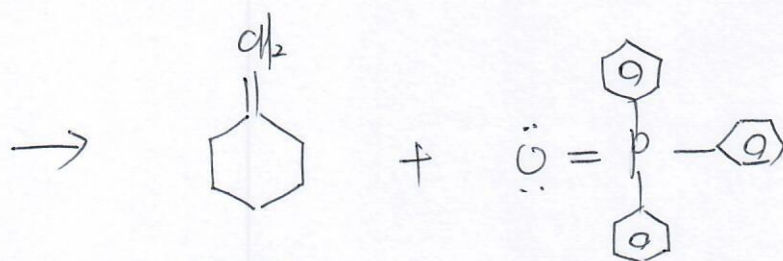
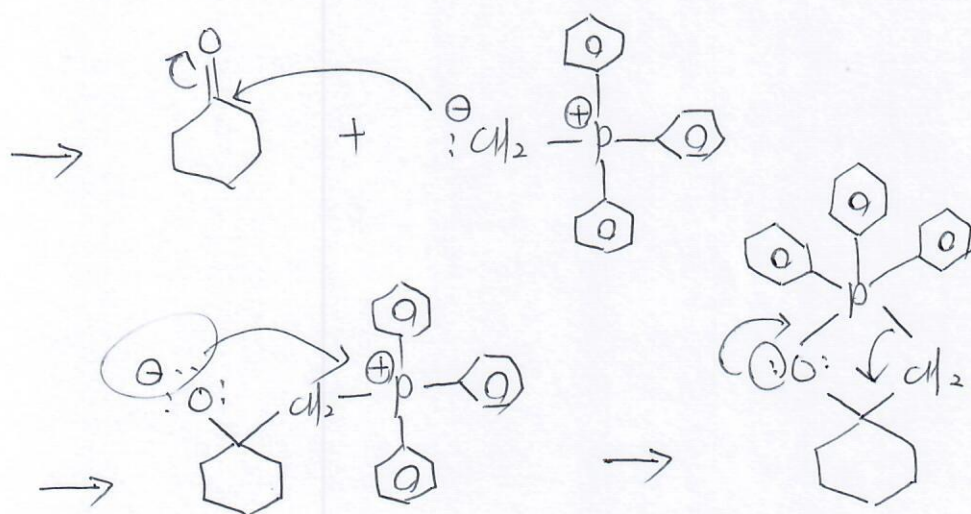
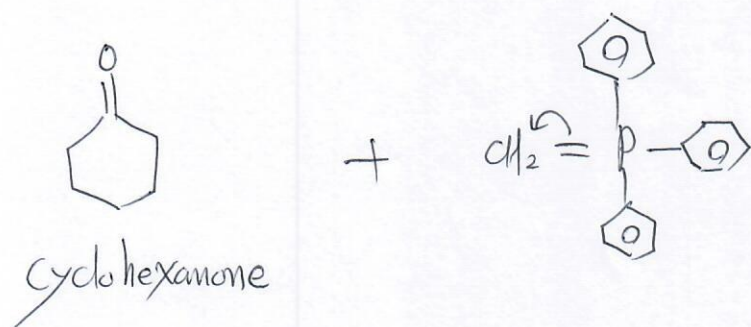




Section 19-11.-2

How to get the methylenecyclohexane  
from cyclohexanone?

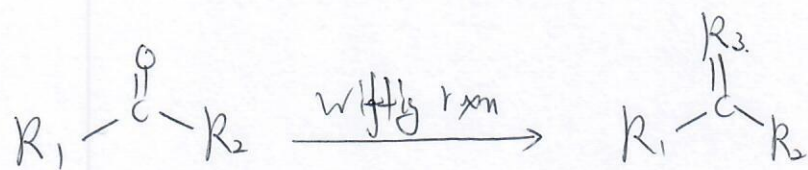
⇒ Wittig rxn.



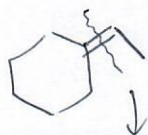
Major product.



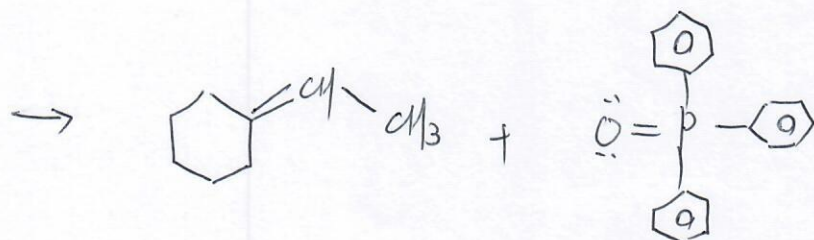
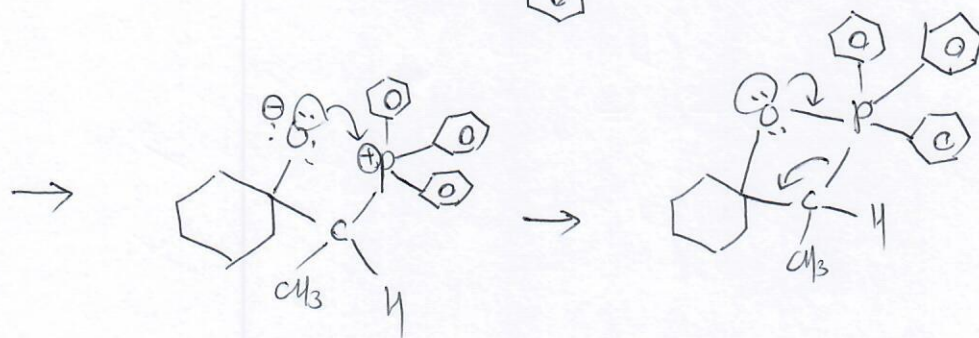
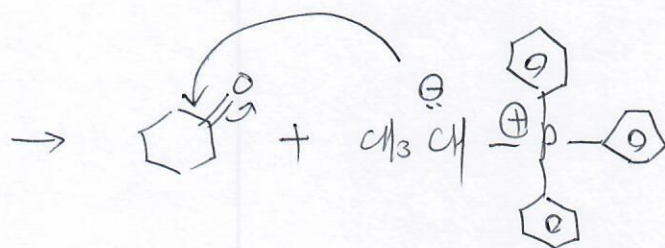
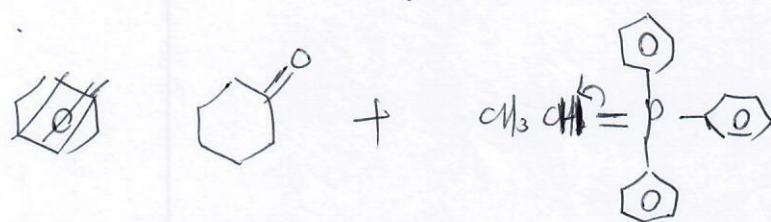
# Problem 19-16.4



(a)



This part is ~~changed~~ <sup>cleaved</sup>.

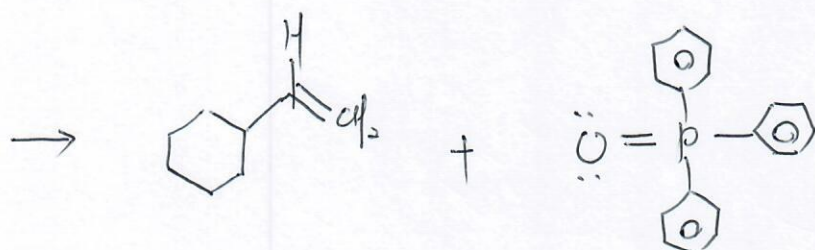
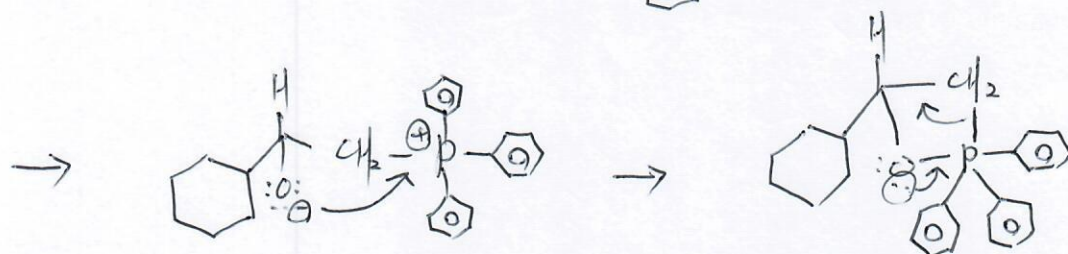
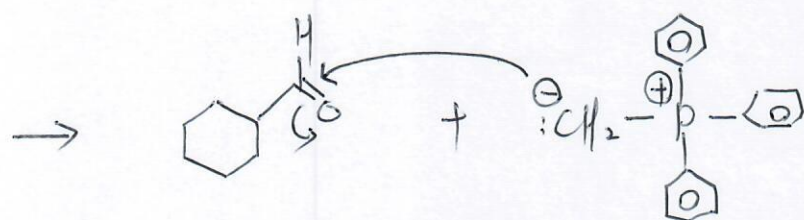
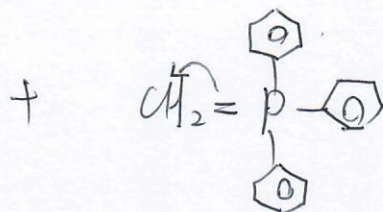
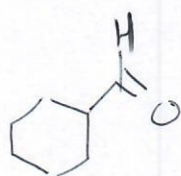
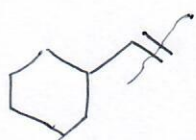


ketone  $\rightarrow$   $\alpha,\beta$  ketone



problem 19-16-2

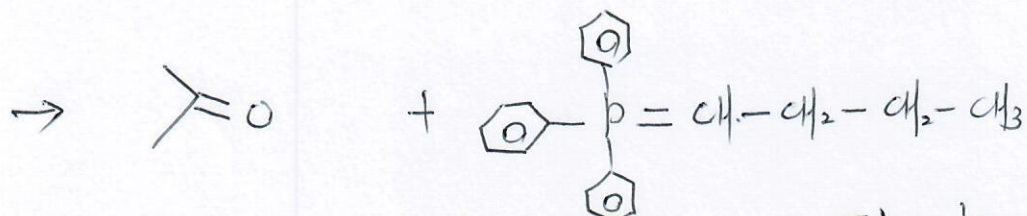
b)



Aldehyde  $\rightarrow$  alkene.

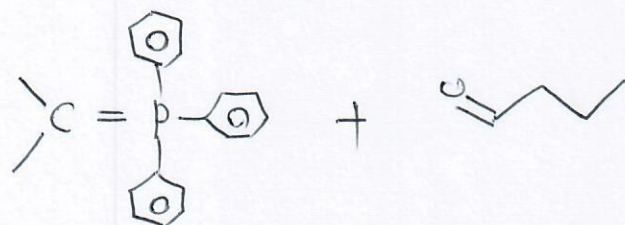
# Problem 19-16-3.

(c)



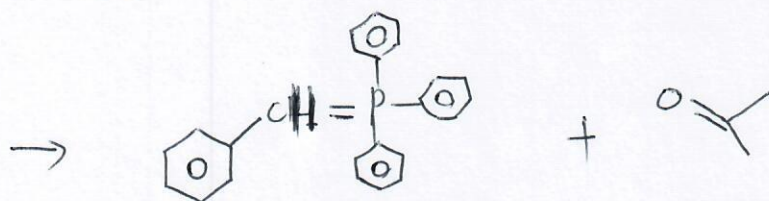
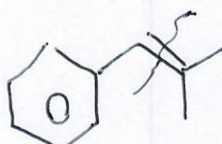
It is possible?

or

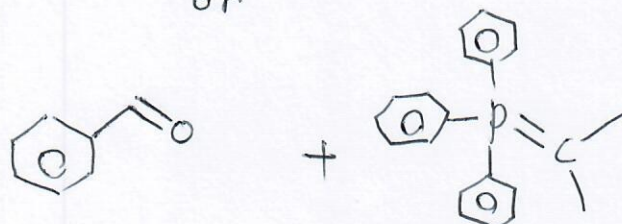


Is it possible?

(d)



or

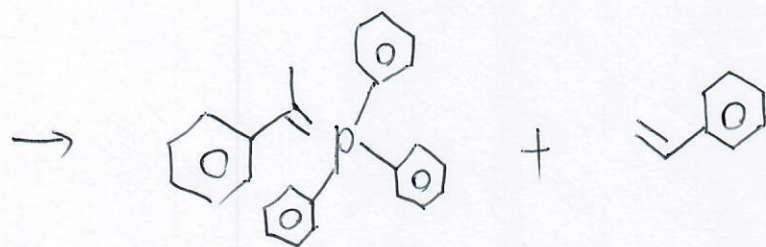
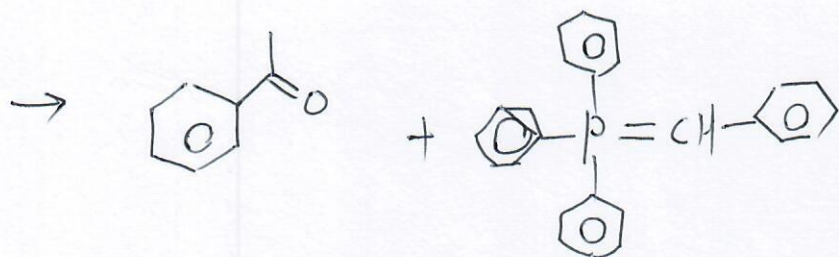
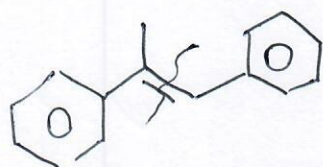


possible?



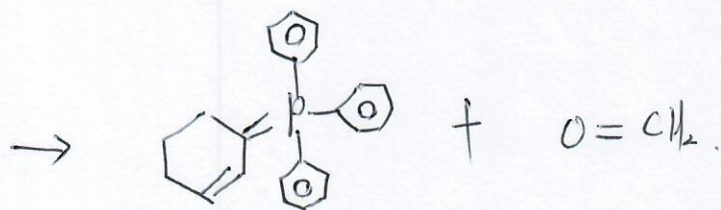
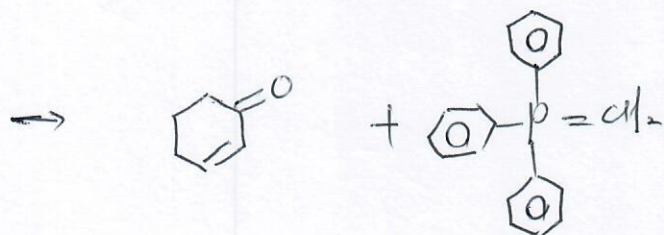
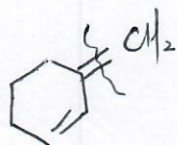
problem 19-16-4.

(e)



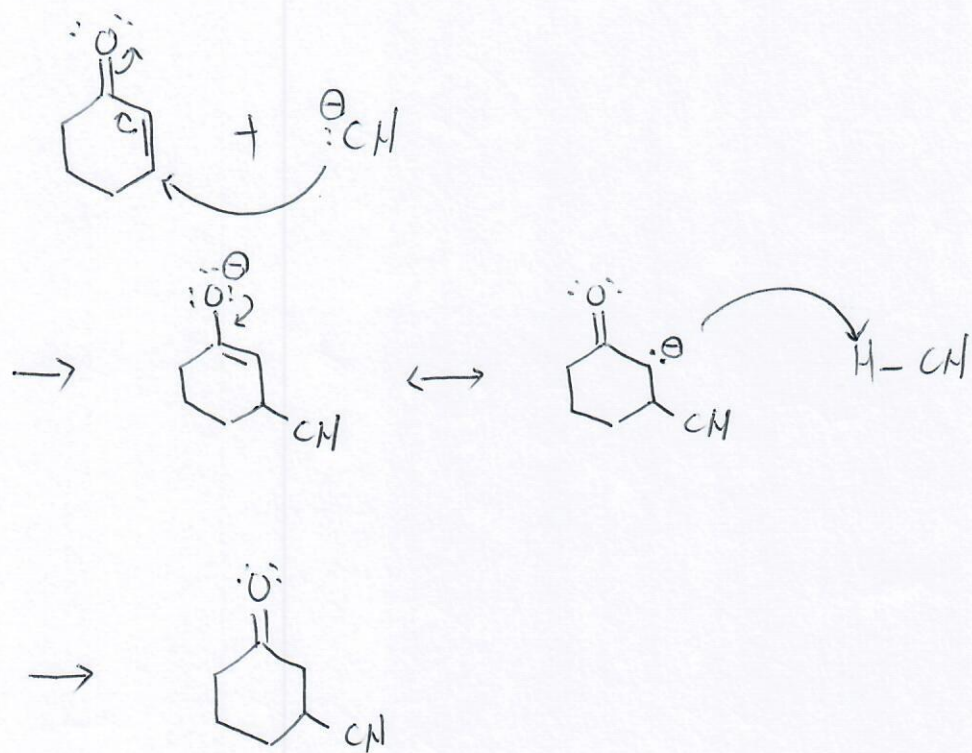
possible?

(f)



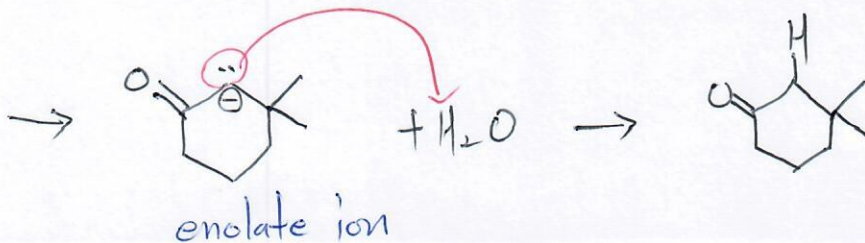
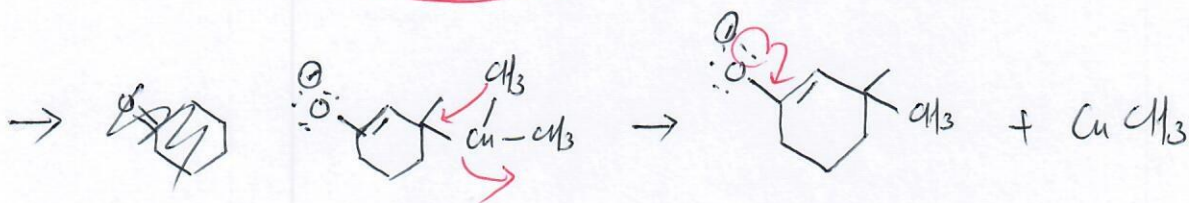
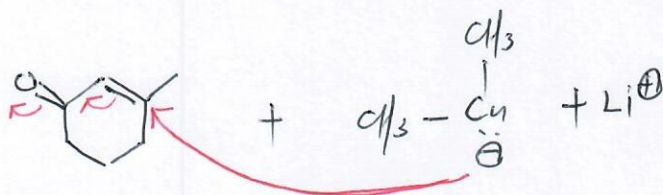
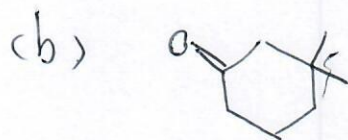
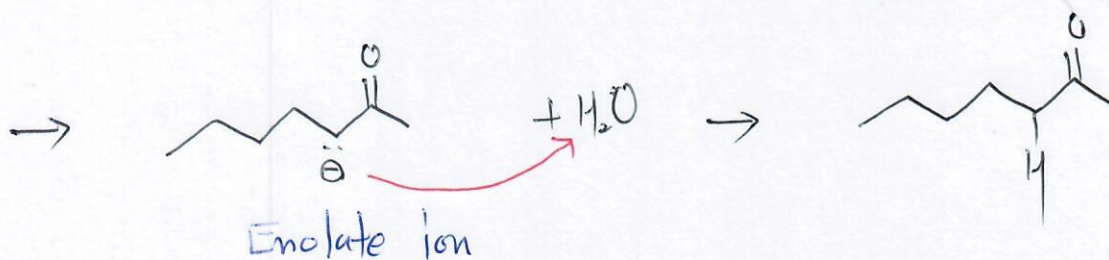
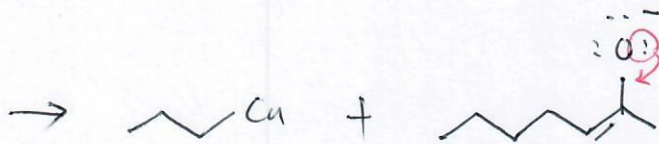
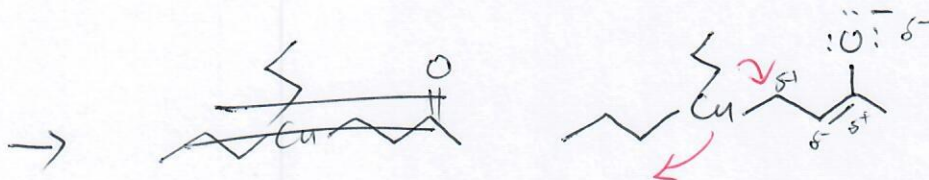
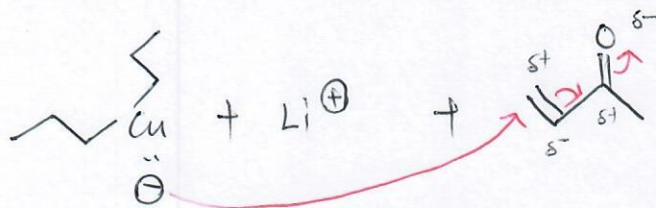
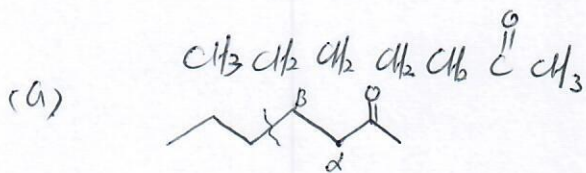
(possible?)

problem 19-21.





problem. 19-22 -1



problem 19-22-2.

