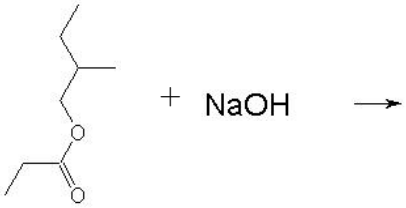
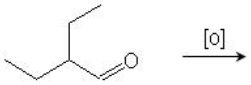
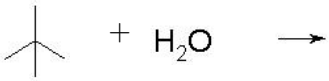
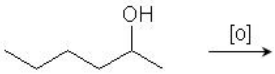
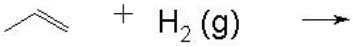
Complete the following reactions. Circle the most favored products.

1. 

2. 

3. 

4. 

5. 

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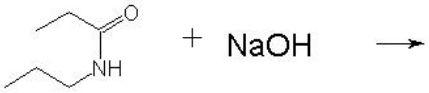
7. 

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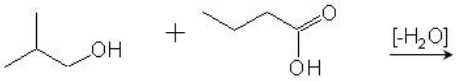
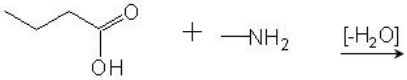
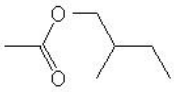
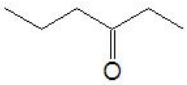
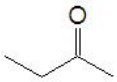
9. 

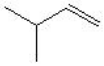
10. 

11.  + H_2O $\xrightarrow{[H^+]}$

12.  $\xrightarrow[\Delta]{H_2/Ni}$

13.  $\xrightarrow[\Delta]{H_2/Ni}$

14. $\xrightarrow[\Delta]{H_2/Ni}$

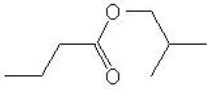
15.  + HCl $\longrightarrow$

16. + HCl + H_2O $\longrightarrow$

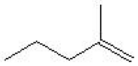
17. + Cl_2 $\longrightarrow$

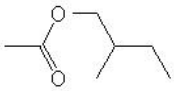
18. + H_2O $\longrightarrow$

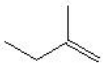
19. CH_4 + H_2O $\longrightarrow$

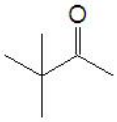
20.  + NaOH $\longrightarrow$

21. + H_2 (g) $\longrightarrow$

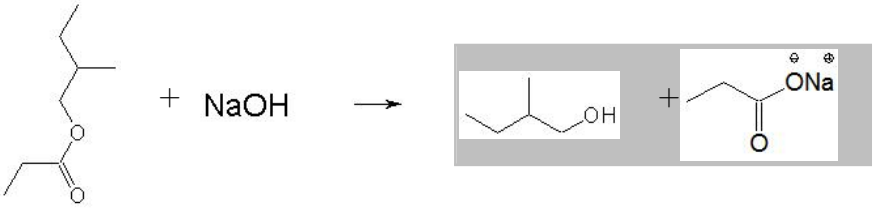
22.  + H_2O →

23.  + NaOH →

24.  + HCl →

25.  $\xrightarrow[\Delta]{H_2/Ni}$

Question 1:



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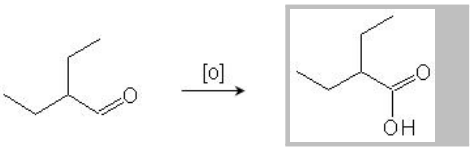

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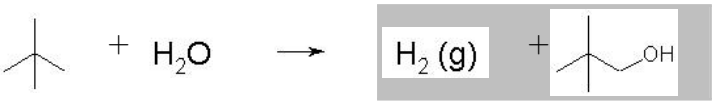

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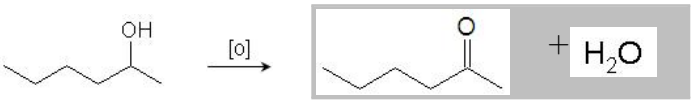

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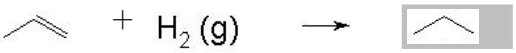
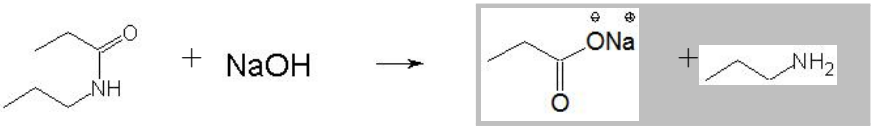


Question 6:

Question 7:



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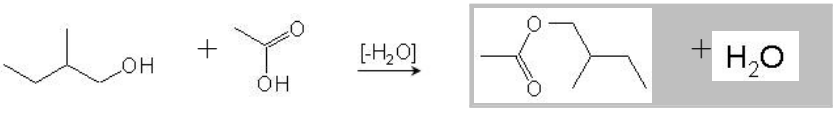

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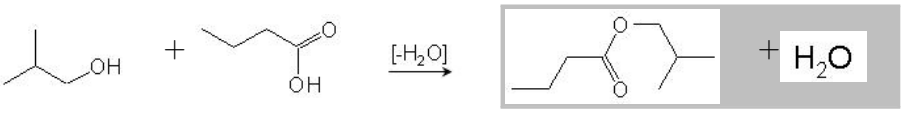

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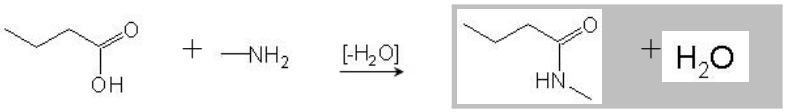

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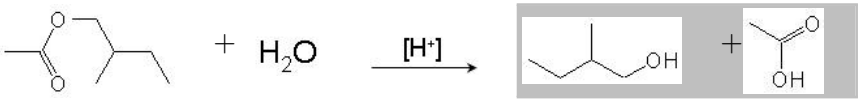

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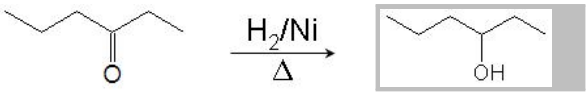
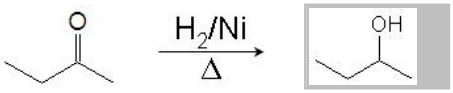
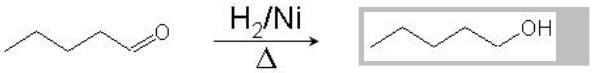
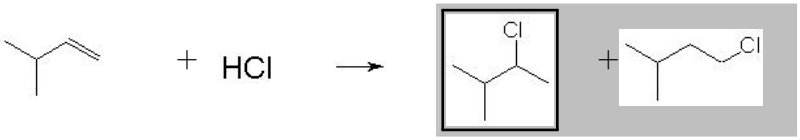


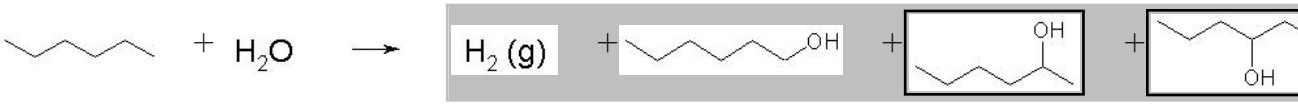
Question 13: 

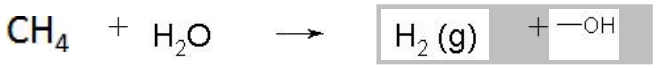
Question 14: 

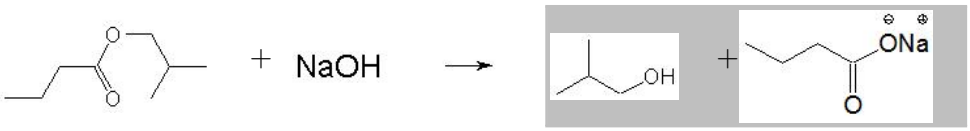
Question 15: 

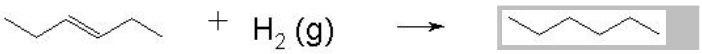
Question 16:

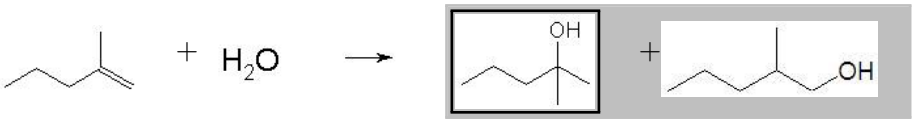
Question 17:

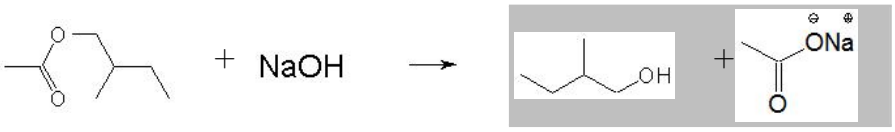
Question 18: 

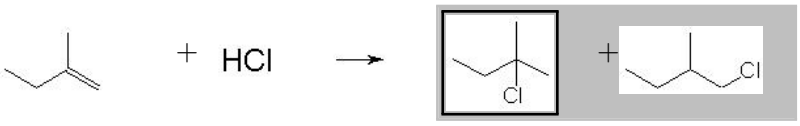
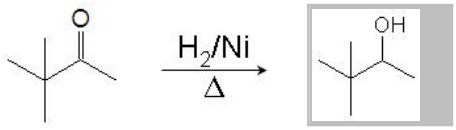
Question 19: 

Question 20: 

Question 21: 

Question 22: 

Question 23: 

Question 24: 

Question 25: