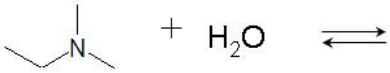
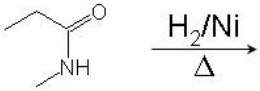
Complete the following reactions. Circle the most favored products.

1. 

2. 

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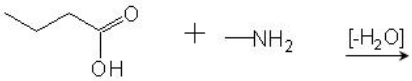
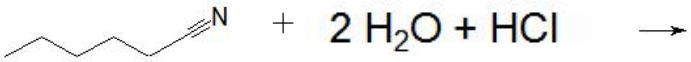
4. 

5. 

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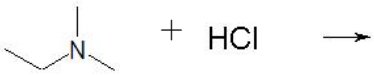
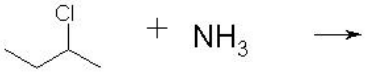
7. 

8. 

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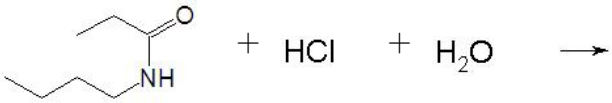
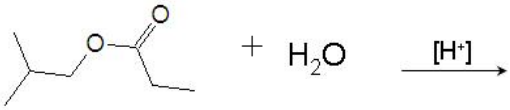
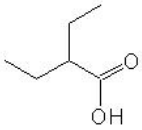
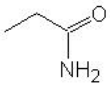
10. 

11. 

12. 

+ $SOCl_2$ →

13. 

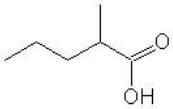
$\xrightarrow[\Delta]{H_2/Ni}$

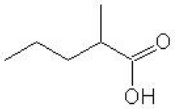
14.

+ NH_3 $\xrightarrow{[-H_2O]}$

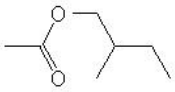
15.

+ H_2O + NaOH →

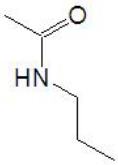
16. 

+ 

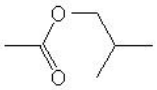
$\xrightarrow{[-H_2O]}$

17. 

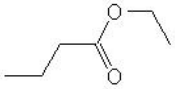
+ NaOH →

18. 

+ NaOH →

19. 

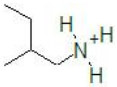
+ NaOH →

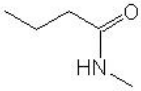
20. 

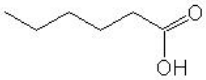
+ NaOH →

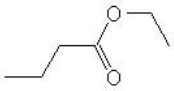
Question 1: + OH^-

Question 2: + H_2O

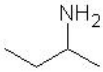
Question 3:  + OH^-

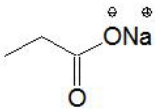
Question 4:  + H_2O

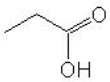
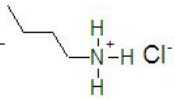
Question 5:  + $\overset{+}{N}H_4Cl^-$

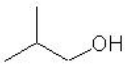
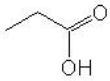
Question 6:  + H_2O

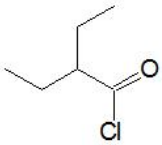
Question 7: Cl^-

Question 8:  + HCl

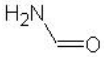
Question 9:  $+NH_{3(aq)}$

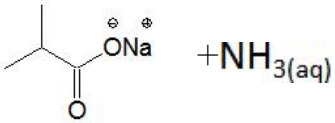
Question 10:  +  Cl^-

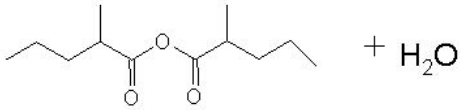
Question 11:  + 

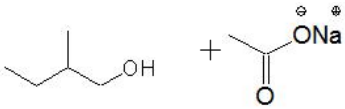
Question 12:  + HCl + SO_2

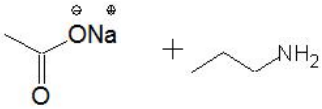
Question 13: + H_2O

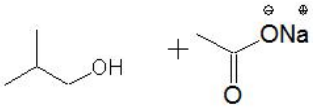
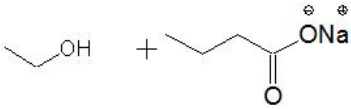
Question 14:  + H_2O

Question 15: 

Question 16: 

Question 17: 

Question 18: 

Question 19: 

Question 20: