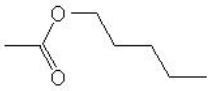
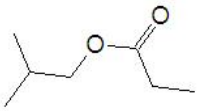
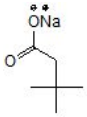
Complete the following reactions. Circle the most favored products.

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

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

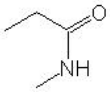
3. $\xrightarrow[\Delta]{H_2/Ni}$

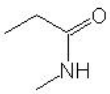
4. + HCl $\longrightarrow$

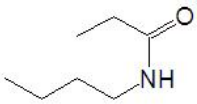
5.  + HCl $\longrightarrow$

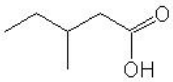
6. + NH_3 $\longrightarrow$

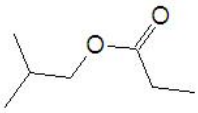
7. $\xrightarrow[\Delta]{H_2/Ni}$

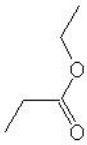
8.  + HCl + H_2O $\longrightarrow$

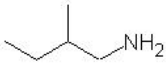
9.  + NaOH $\longrightarrow$

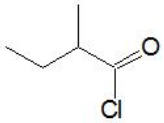
10.  + NaOH $\longrightarrow$

11.  + $SOCl_2$ $\longrightarrow$

12.  + NaOH →

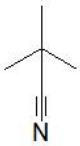
13.  + NaOH →

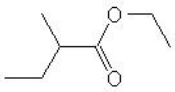
14.  + H_2O ⇌

15. + +  →

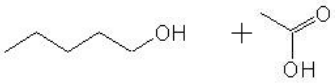
16. $\xrightarrow{[o]}$

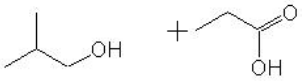
17. + H_2O ⇌

18.  + 2 H_2O + HCl →

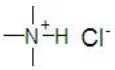
19.  + H_2O $\xrightarrow{[H^+]}$

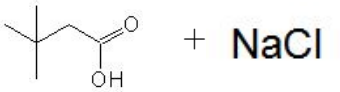
20. + HCl + H_2O →

Question 1: 

Question 2: 

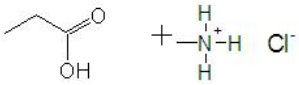
Question 3:

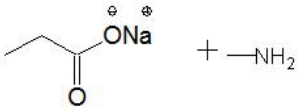
Question 4: 

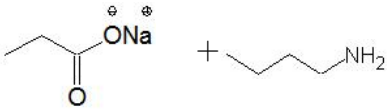
Question 5: 

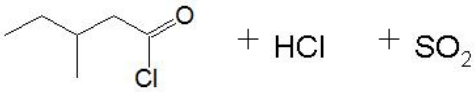
Question 6:

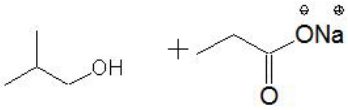
Question 7:

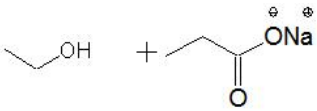
Question 8: 

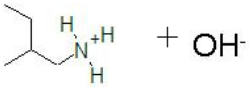
Question 9: 

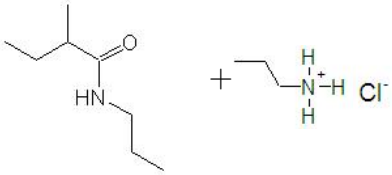
Question 10: 

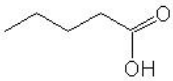
Question 11: 

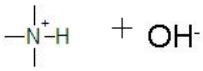
Question 12: 

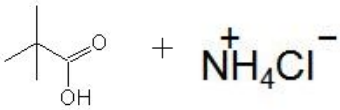
Question 13: 

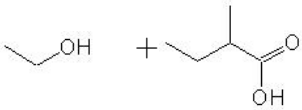
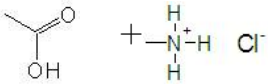
Question 14: 

Question 15: 

Question 16: 

Question 17: 

Question 18: 

Question 19: 

Question 20: