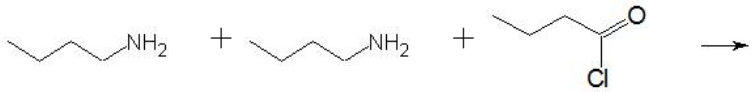
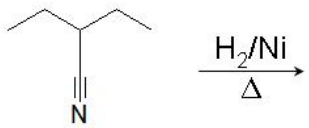
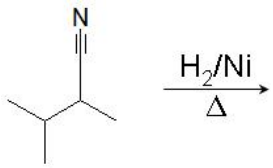
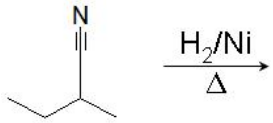
Complete the following reactions. Circle the most favored products.

1. 

2. 

3. 

4. 

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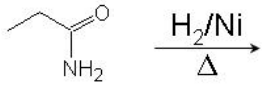
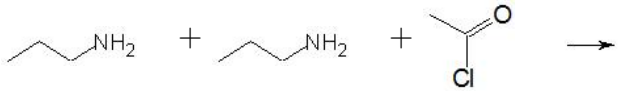
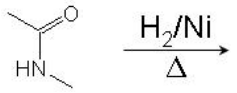
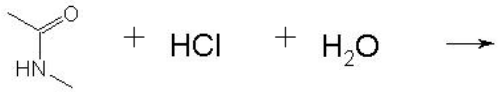
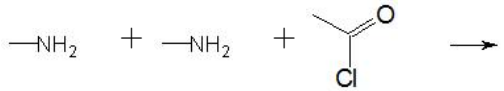
6. 

7. 

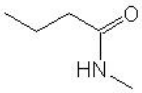
8. 

9. 

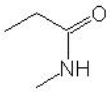
10. 

11.

+ HCl →

12. 

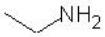
$\xrightarrow[\Delta]{H_2/Ni}$

13. 

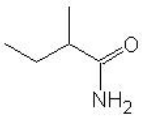
+ HCl + H_2O →

14.

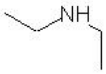
$\xrightarrow[\Delta]{H_2/Ni}$

15. 

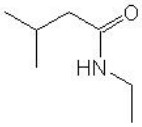
+ H_2O $\rightleftharpoons$

16. 

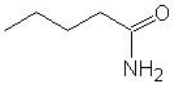
$\xrightarrow[\Delta]{H_2/Ni}$

17. 

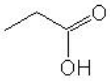
+ H_2O $\rightleftharpoons$

18. 

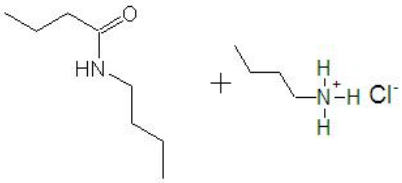
+ NaOH →

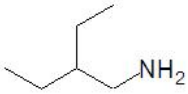
19. 

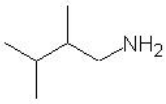
$\xrightarrow[\Delta]{H_2/Ni}$

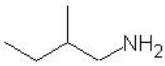
20. 

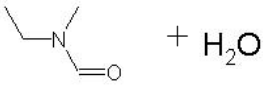
+ —NH_2 $\xrightarrow{[-H_2O]}$

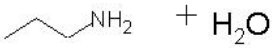
Question 1: 

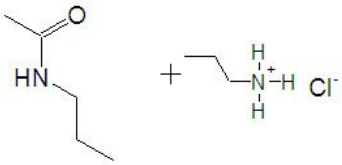
Question 2: 

Question 3: 

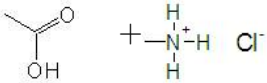
Question 4: 

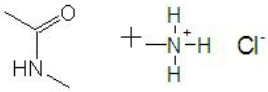
Question 5: 

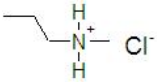
Question 6: 

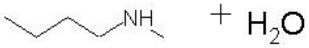
Question 7: 

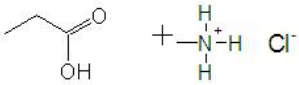
Question 8:

Question 9: 

Question 10: 

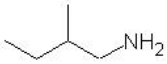
Question 11: 

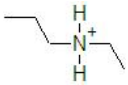
Question 12: 

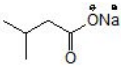
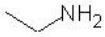
Question 13: 

Question 14:

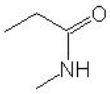
Question 15: + OH^-

Question 16:  + H_2O

Question 17:  + OH^-

Question 18:  + 

Question 19: + H_2O

Question 20:  + H_2O