Complete the following reactions. Circle the most favored products.

1. 
$$\rightarrow$$
 H<sub>2</sub>O  $\Longrightarrow$ 

$$2. \qquad \uparrow \qquad + \longrightarrow_{\mathsf{NH}_2} \qquad \xrightarrow{[\mathsf{H}_2\mathsf{O}]}$$

3. 
$$+ NH_3 \xrightarrow{[H_2O]}$$

4. 
$$NH_2 + NH_2 + CI$$

5. 
$$+ HCI + H_2O \rightarrow$$

6. + HCI + 
$$H_2O$$
 -

7. 
$$NH_2 + NH_2 + CI$$

8. 
$$HO$$
 +  $-NH_2$   $\underbrace{[-H_2O]}$ 

9. 
$$^{NH_2}$$
 +  $H_2O$   $\Longrightarrow$ 

10. 
$$N \xrightarrow{H_2/Ni} \Delta$$

11. 
$$\downarrow 0$$
 +  $\downarrow NH$   $[-H_2O]$ 

14. 
$$\underset{HN}{\downarrow}^{\circ}$$
  $\xrightarrow{H_2/Ni}$ 

15. 
$$H_2/Ni$$

17. 
$$\underset{NH_2}{\bigvee}^{O} \xrightarrow{H_2/Ni} \xrightarrow{\Delta}$$

18. 
$$NH_2 + H_2O \iff$$

19. 
$$NH_2 + NH_2 + CI$$

20. 
$$+ \longrightarrow H_2$$
  $\xrightarrow{[-H_2O]}$ 

Question 1: 
$$-\begin{matrix} H \\ -N \end{matrix}$$
 + OH-

Question 2: 
$$+ H_2O$$

Question 3: 
$$+ H_2O$$

Question 4: 
$$+ \stackrel{\mathsf{H}}{\underset{\mathsf{H}}{\bigvee}}$$

Question 8: 
$$HN = 0$$
 +  $H_2O$ 

Question 10: 
$$NH_2$$

Question 11: 
$$+ H_2O$$

Question 13: 
$$\rightarrow H_2O$$

Question 15: 
$$NH_2$$

Question 16: 
$$\bigcirc$$
ONa +  $\bigcirc$ NH<sub>2</sub>

Question 18: 
$$\begin{array}{c} H \\ -N^{-}H \\ H \end{array}$$
 + OH-

Question 20: 
$$+ H_2O$$