Complete the following reactions. Circle the most favored products.

1. 
$$\downarrow$$
 OH +  $\downarrow$  OH  $[-H_2O]$ 

3. 
$$NH_2 + NH_2 + C$$

4. 
$$HN$$
  $H_2/Ni$   $\Delta$ 

5. 
$$NH_2 + H_2O \iff$$

$$6. \ \ \overset{\text{HO}}{\longleftarrow} \ \ + \ \ \overset{\text{[-H_2O]}}{\longrightarrow}$$

7. 
$$NH$$
 +  $-CI$   $\longrightarrow$ 

9. 
$$\longrightarrow$$
 HCI + H<sub>2</sub>O  $\longrightarrow$ 

$$^{10.}$$
  $^{\rm NH_2}$   $^+$  HCl  $^{-}$ 

11. 
$$HO$$
 +  $-NH_2$   $\underbrace{-H_2O}$ 

12. 
$$^{N}$$
 + 2 H<sub>2</sub>O + HCl  $\rightarrow$ 

13. 
$$\rightarrow$$
  $\rightarrow$   $\rightarrow$   $\rightarrow$   $\rightarrow$ 

14. 
$$+$$
 2 H<sub>2</sub>O + HCI  $\rightarrow$ 

15. 
$$+ \text{ HCI} + \text{ H}_2\text{O} \rightarrow$$

16. 
$$+ HCI + H_2O \longrightarrow$$

$$17.$$
 NH + HCI  $\rightarrow$ 

20. 
$$\downarrow$$
 HCI  $\rightarrow$ 

Question 1: 
$$+ H_2O$$

Question 3: 
$$+ - \stackrel{H}{\underset{H}{\bigvee}} + CI^-$$

Question 4: 
$$\rightarrow$$
  $+$   $H_2O$ 

Question 5: 
$$\begin{array}{c} \begin{array}{c} H \\ -N^{+}H \end{array} + OH^{-} \end{array}$$

Question 6: 
$$-\sqrt{\phantom{a}} + H_2O$$

Question 8: 
$$-$$
 +  $H_2O$ 

Question 9: 
$$\begin{array}{c} \bigcirc \\ \bigcirc \\ \bigcirc \\ \bigcirc \\ \bigcirc \\ \end{array}$$
 +  $\begin{array}{c} \stackrel{H}{\longrightarrow} \\ \stackrel{L}{\mapsto} \\ \stackrel{H}{\mapsto} \\ \bigcirc \\ \end{array}$  CI

Question 11: 
$$_{HN}$$
 +  $_{H_2}O$ 

Question 13: 
$$+ HCI + SO_2$$

- Question 14: + NH<sub>4</sub>CI + NH<sub>4</sub>CI
- Question 16:  $+ \frac{H}{N^{+}H} CI^{-}$
- Question 17:  $\bigvee_{\substack{N^+\\l}}^{H} Cl^-$
- Question 18:
- Question 19: OH
- Question 20:  $\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabu$